APPENDIX B-1: RESULTS OF SOIL VAPOR ANALYSES



February 25, 2004

Mr. Scott Brehmer Geofon 22632 Golden Springs Drive, Suite 270 Diamond Bar, CA 91765

Subject: Data Report - Jet Propulsion Laboratory - 4800 Oak Drive, Pasadena, CA - Geofon Project #04-4428.10

H&P Mobile GeoChemistry Project # GF020204-L6

Mr. Brehmer:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (Cert#1561).

Project Summary

Soil vapor from 10 points was analyzed for:

- Halogenated and volatile aromatic hydrocarbons by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile GeoChemistry appreciates the opportunity to provide analytical services to Geofon on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely

Ms. Rebecca Johnson

GEOFON PROJECT # 04-4423.10 JET PROPULSION LABORATORY 4800 GAK GROVE DRIVE PASADEMA, CA

INSTRUMENT: AGLIENT 4650 GC / 5973 MASS SPECTROMETER VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 5260). ANALYSES OF SOIL VAPOR SOIL VAPOR DATA IN UGL-VAPOR. H&P Mobile GeoChemistry Project #GF020204-L6

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H11) WE OFF113) WE OFF133 WE OFF113) WE OFF113 WE OFF133 WE OF	2 2 2	5	8	ā	B	Ä	M	I	1
H13) R12) R12) R13) R12) R14) R15) R15 R17) R17	2 2	pu pu	2	g	P	9	2	1	2 7
H15) R127 R127 R127 R127 R127 R127 R127 R127	8	M M	2	2	90	1	1 1	2 7	2 1
H15) H25 H25 H25 H25 H26 H27		20	pu	2	1	1 7	1	2 1	2
H11) Ad A	2	2	P	100	1	! 1	2 1	2	8
H115) H275 H275 H275 H275 H275 H275 H275 H275	P	20		! !		E	2	2	B
NE (FR113) And THE	1			2	8	2	7	14	14
NE (FR15)	1 1	2 1	2	9	P	8	B	P	B
ME(FR113)	8 1	2	2	2	2	P	2	90	2
	2 1	B .	Dia.	B	E	Ę	2	2	2
	2	Did Did	2	1,0	B	Be	2	E	2
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2	2	DU DU	2	2	Z	8	2	2	! 1
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	2	2	S	D	pu	2	2	1	! 1
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W.	pu pu	Till Sid	pu	Б	2	2	1	2 7	2 1
							2	THE REAL PROPERTY.	2
100% 99%			102%	100%	1001	196	100	200	1
NAS NOS NAS NAS NAS			BAN	23	200 N	96%	84%	2 2	College.
WHO WOR WAR BOW CAN	404	80% BOW	9	96%	92%	91%	Dept.	2000	200

4 BROMOFLUCKO BENZENE RZW. 90% 90% ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGA.-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DCHS MOBILE LABORATORY #1561
ANALYSES PERFORMED BY: MARK 9URKII.
DATA REVIEWED BY: TAMARA DAVIS



April 16, 2004

Mr. Jay Robinson Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #04-4428.10 JPL#2

HP Labs Project # GF040604-L6

Mr. Robinson:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #1561).

Project Summary

Soil vapor from 41 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chainof-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile Geochemistry appreciates the opportunity to provide analytical services to Geofon on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Ms. Tamara Dav

Lab Director

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www.HandPmg.com r 1-800-834-9888

GEOFON PROJECT #04-12812 JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

INSTRUMENT: AGILENT 6450 GC / 5973 MASS SPECTROMETER
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 6290) ANALYSES OF SOIL VAPOR
SOIL VAPOR DATA IN UGAL-VAPOR HP Labs Project #GF040604-L6

	AMBIENT	SVW33- VPD-001	SVW33- VPE-002	SVW33- VPF-003	SVW17.	SVW4-	SVW4-	SVW37- VP8-007	SVW37- VPD-008	SVW37. VPE-009	SVW37-VPE- 010 Dup
DATE	04/05/04	04/05/04	04/06/04	04/06/04	04/06/04	94/06/04	04/06/04	04/06/04	04/06/04	90/90/90	04/06/04
AMALYSIS TIME	6:47	7:42	8:07	2	8.59	928	9:52	10:18	10.45	11:54	11340
SAMPLING DEPTH (feet)	1	85	105	130	98	8	98	9	90	8	82
VOLUME WITHDRAWN (cc)	1	400	480	940	204	140	284	220	380	460	929
VOLUME INJECTED	2	2	50	50	8	8	8	20	8	8	8
DILUTION FACTOR	900	50:0	500	50'0	90.0	900	90.0	900	900	900	90'0
CARBON TETRACHLORIDE	pu	5	5	pu	2	B	8	pu	5	2	8
CHLOROETHANE	B	2	B	P	2	2	5	2	2	2	2
CHLOROFORM	2	2	9	P	2	2	2	2	2	5	9
1,1-DICHLORO ETHANE	P	2	В	pu	2	20	2	B	2	2	B
1,2-DICHLORO ETHANE	2	Ð	Б	P	7.8	2	ē	pu	B	9	B
1,1-DICHLORO ETHENE	g	2	1.0	Ŋ	Ð	2	5	p	5	ā	B
CIS-1,2-DICHLORO ETHENE	B	B	E	B	В	2	P	Б	5	8	p
TRANS-1,2-DICHLORO ETHENE	Z	ā	ä	B	P	2	B	2	50	8	P
DICHLOROMETHANE	2	B	5	B	E	펻	F	5	2	8	Pu.
TETRACHLORO ETHENE	P	pu	pu	Б	6.0	2	g	2	2	B	g
1,1,1,2-TETRACHLORO ETHANE	2	B	E	8	2	9	B	8	2	ā	pu
1,1,2,2-TETRACHLORO ETHANE	2	B	2	P	5	pu	B	pu	5	2	pu
1,1,1-TRICHLORO ETHANE	P	2	8	Б	3	pu	3	B	2	2	8
1,1,2-TRICHLORO ETHANE	P	2	E	P	E	P	8	2	20	ā	B
TRICHLORO ETHENE	P	2	2	5	9	*	ž	2	2	2	2
VINYL CHLORIDE	pu	pg	S	8	2	P	2	2	2	92	2
TRICHLOROFLUGROMETHANE (FR11)	PL	pu	2	ā	2	P	2	2	2	B	2
DICHLORODIFLUOROMÉTHANE (FR12)	М	3	2	8	2	9	2	2	2	pe	В
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	pu	g	29	2	2	pu	5	B	2	pu	B
BENZENE	Pu	pu	2	p	32	pu	p	5	Б	Б	B
CHLOROBENZENE	B	2	2	8	2	2	2	2	9	P	p
ETHYLBENZENE	B	2	2	2	2.9	B	2	2	2	P	2
TOLUENE	2	2	2	B	2	8	2	2	9	P	2
m&p-XYLENES	g	2	2	2	=	2	S	S	PL	pu	2
6-XYLENE	pu	20	5	29	2	Б	2	2	pu	pu	pu
SURROGATES (75-125% RECOVERY)											
DIBROMODIFUIOROMETHANE	112%	114%	113%	117%	210	110%	112%	117%	117%	1189%	121%
1,2-DICHLOROETHANE-44	104%	105%	108%	108%	2598	101%	106%	107%	106%	107%	111%
4 BROWDFLUORO BENZENE	107	80%	86%	402	95.26	MEZA	MAZE	83%	03%	\$98	282

4 BROMOFLUORO BENZENE 98% 88% 96% 96% ND INDICATES NOT DETECTION LIMIT OF 1.0 UGAL-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #1561
ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS

JET PROPULSION LABORATORY GEOFON PROJECT # 04-12812 4800 CAK GROVE DRIVE PASADENA, CA HP Labs Project #GF040604-L5

INSTRUMENT: AGLENT 6850 GC / 5973 MASS SPECTROMETER VOLATILE HALOGENATED AND ARDMATIC HYDROCARBONS (EPA Method 8280). ANALYSES OF SOIL VAPOR SOIL VAPOR DATA IN U.G.L. VAPOR.

SOIL VAIOR DATA IN USAL-VAPOR	-	-	100000000000000000000000000000000000000	1000									
	BLANK	VPH-011	5VW3/-VPI-5VW3/-VPI	013	VPA-014	VPB-015	VPC-016	VPD-017	SVM27-	VPF-019	VPG-020	621 022 Dup	SVWZ7-VPI- 022 Dup
DATE	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04	04/07/04
ANALYSIS TIME	6:43	7:24	7.58	8.22	8:49	9.15	9:41	10:07	10:34	11:00	11:27	12.40	13:07
SAMPLING DEPTH (loci)	t	155	170	165	8	92	9	98	8	120	140	180	160
VOLUME WITHDRAWN (cc)	1	680	740	900	140	140	300	400	460	540	620	780	840
VOLUME INJECTED	8	8	20	8	R	8	8	200	8	20	8	8	8
DILUTION FACTOR	90'0	90.0	900	0.05	90.0	900	0.05	0.05	0.00	90'0	900	900	90'0
CARBON TETRACHLORIDE	2	Pa	5	p	8	pu	p	8	180	Б	pu	8	2
CHLOROETHANE	5	PI	5	2	2	8	2	2	8	2	2	5	2
CHLOROFORM	5	b	2	8	5	2	В	8	2	2	2	8	2
1,1-DICHLORO ETHANE	pu	pu	2	8	P	Б	9	8	2	E	2	8	2
CIS-1,2-DICHLORO ETHENE	P	pu	8	B	2	B	2	8	B	2	pu	5	P
TRANS-1,2-DICHLORO ETHENE	ž	pu	2	2	P	2	E	8	2	5	5	5	pu
DICHLOROMETHANE	2	P	g	2	P	2	B	8	2	5	pu	2	2
TETRACHLORO ETHENE	2	pu	2	p	2	2	B	8	2	2	B	S	P
1,1,1,2-TETRACHLORO ETHANE	Pu	밑	2	2	2	8	2	8	2	5	S	5	2
1,1,2,2-TETRACHLORO ETHANE	B	B	ğ	2	2	8	2	8	ā	8	2	2	5
1,1,1-TRICHLORO ETHANE	ē	pu	2	B	2	2	2	B	2	pu	2	5	5
1,1,2-TRICHLORO ETHANE	ğ	pu	2	B	2	2	5	B	2	2	2	2	2
TRICHLORO ETHENE	Đ	pu	2	B	2	2	P	8	p	2	2	2	2
VINYL CHLORIDE	g	pu	g	P	2	8	B	8	P.	2	pu	2	5
TRICHLOROFLUOROMETHANE (FR11)	P	pu	8	P	2	8	В	g	P	8	2	5	5
DICHLORODIFLUOROMETHANE (FR12)	P	P	2	P	2	8	Pu	2	2	2	5	Ş	2
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	pu	pu	8	pu	2	p	pu	pg	pe	2	2	5	2
BENZENE	pu	pu	8	pu	pu	р	pu	po	pu	В	gu.	5	B
CHLOROBENZENE	pu	р	2	P	2	2	pu	S	2	2	20	5	2
ETHYLBENZENE	pu	pu	2	B	2	8	B	5	pu	2	50	5	2
TOLUENE	P	P	2	B	2	2	DI.	S	2	8	2	2	2
m&p-XYLENES	pu	pu	2	B	8	2	P	B	2	8	5	5	5
0-XYLENE	pu	pu	pu	pu	pu	2	pu	pu	B	2	20	5	2
SURROGATES (75-125%, RECOVERY)													
DIBROMODIFLUOROMETHANE	110%	110%	112%	117%	117%	117%	119%	121%	1225	121%	121%	110%	118%
1,2-DICHLOROETHANE-d4	100%	103%	100%	106%	108%	106%	100%	110%	106%	109%	116%	103%	106%
4 BROMOFLUORO BENZENE	198	101%	2446	93%	97%	%96	97%	94%	956	94%	85%	85%	92%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 LIGAL-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOMS MOBILE LABORATORY #1561

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS

GEOFON PROJECT # 04-12812 JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR SOIL VAPOR DATA IN UGL-VAPOR INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER HP Labs Project #G/1040604-L6

	TANDER A	CHARLES	CLAANSE	2111122	40144468	Ot Abres	des Automotion	-	-	-	Section Labor.
	BLANK	VPE-023	VPI-024	VPD-025	VPF-026	VPJ-027	VPE-028	VPF-029	VPG-030	VPI-031	032 Dup
DATE	10/10/10	04/08/04	0408/04	90/90/90	94/04/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04
ANALYSIS TIME	6:40	7.24	7.50	8.16	0.30	9:37	10.05	10:32	11:00	11:27	11.53
SAMPLING DEPTH (feet)	1	90	140	90	110	170	88	100	110	130	130
VOLUME WITHDRAWN (tot)	1	360	620	380	909	740	400	460	900	999	040
VOLUME INJECTED	50	20	8	92	8	2	8	R	8	8	8
DILUTION FACTOR	0.05	90.0	90.0	900	900	900	900	900	0.05	0.05	90'0
CARBON TETRACHLORIDE	8	8	8	2	B	pu	po	23	2	B	pe
CHLOROETHANE	P	E	2	Б	2	P	2	5	8	P	B
CHLOROFORM	P	8	5	á	2	2	2	5	2	2	5
1,1-DICHLORO ETHANE	p	8	S	5	2	B	5	2	B	P	2
1,2-DICHLORO ETHANE	Đ	8	8	5	2	9	2	2	2	DE.	2
1,1-DICHLORO ETHENE	B	2	5	E	2	5	B	5	2	2	9
CIS-1,2-DICHLORO ETHENE	2	2	2	2	2	B	2	5	2	5	5
TRANS-1,2-DICHLORO ETHENE	P	2	2	2	2	2	5	S	5	2	ā
DICHLOROMETHANE	8	8	2	8	E	8	8	8	B	E	8
TETRACHLORO ETHENE	9	B	5	B	2	2	ę	2	2	B	S
1,1,1,2-TETRACHLORO ETHANE	E	B	5	2	5	B	2	2	5	P	E
1,1,2,2-TETRACHLORO ETHANE	2	2	2	2	2	Б	2	2	2	B	5
1,1,1-TRICHLORO ETHANE	pu	2	9	2	2	P	2	2	2	5	8
1,1,2-TRICHLORO ETHANE	P	pu	2	2	2	P	2	5	5	8	E
TRICH, ORO ETHENE	2	2	5	2	2	pu	2	4.4	5	2	B
WWYL CHLORIDE	2	2	2	2	2	P	2	5	2	5	2
TRICHLOROFLUOROMETHANE (FR11)	2	2	2	2	2	P	P	2	2	В	5
DICHLORODIFLUOROMETHANE (FR12)	2	2	2	2	2	P	S	2	5	2	B
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	2	2	1.2	pu	20	pu	6.1	9.2	2	pg	2
BENZENE	pu	g	2	pu	2	pu	9	ы	p	gu	5
CHLOROBENZENE	g	2	2	9	B	g	8	B	2	B	2
ETHYLBENZENE	2	p	2	2	2	B	2	B	2	B	B
TOLUENE	5	2	2	B	2	pu	bu	9	2	B	P
m&p-XYLENES	P	P	B	P	2	P	5	B	2	5	5
o-XYLENE	pg	pu	pu	pu	B	pu	2	pu	B	P	2
SURROGATES (75-125% RECOVERY)	STATE OF THE STATE OF	200	100		0.000						
DIBROMODIFLUOROMETHANE	111%	112%	112%	115%	114%	134%	116%	118%	120%	116%	110%
1,2-DICHLOROETHANE-64	104%	100%	301%	108%	103%	106%	100%	109%	100%	107%	110%
4 BROMOFLUORO BENZENE	87%	550	25.90	07%	76.98	100%	86%	92%	97%	96%	93%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGAL-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY \$1561
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

JET PROPULSION LABORATORY GEOFON PROJECT # 04-12812 4800 DAK GROVE DRIVE PASADENA, CA

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER HP Labs Project #GF040504-L6

VOLATILE HALOGENATED AND ARCMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR SOIL VAPOR

TH (feet) = 1.000004 SRAWN (cc) = 2.00 OR 0.05 CHICALORIDE nd	7.22	90/50/90	CAMPANA	OLIDBRIG					
(feet) WAN (cc)	7.22		- Company	Colonia.	04/09/04	04/09/04	04/09/04	04/09/04	04/09/04
(feet) WAN (cc)		7,48	8:14	8:40	90.0	9:33	10:00	10:27	10.54
AWN (cc)	115	140	160	8	R	55	22	92	92
LORIDE	520	620	92	9	88	280	300	428	465
TORIDE	2	8	8	2	8	8	8	2	90
RBON TETRACHLORIDE nd	900	900	9000	90'0	900	0.05	0.05	900	90'0
LOROETHANE	8	nd	p	P	S	pu	ba	pu	5
	S	2	2	P	2	P	8	pu	pu
CHLOROFORM	8	2	2	pu	2	2	8	5	8
1,1-DICHLORO ETHANE	S	5	2	Б	S	5	3	B	2
1.2-DICHLORO ETHANE	S	gu.	pu	P	2	2	2	9	2
1,1-DICHLORO ETHENE	5	8	B	뒫	2	S	8	B	2
CtS-1,2-DICHLORO ETHENE	8	2	P	2	2	B	S	5	2
TRANS-1,2-DICHLORD ETHENE	2	2	5	p	8	DC .	g	8	2
DICHLOROMETHANE	ž	2	g	5	5	g	2	B	2
TETRACHLORO ETHENE	S	S	pu	5	2	P	2	5	2
1,1,1,2-TETRACH, ORO ETHANE	S	8	P	B	2	g	2	B	B
1,1,2,2-TETRACHLORO ETHANE	2	2	B	pu	2	90	2	B	2
1,1,1-TRICHLORO ETHANE	2	2	pu	pu	ē	90	2	8	B
1,1,2-TRICHLORO ETHAME	2	2	9	2	Б	Pu	2	5	B
TRICHLORO ETHENE	2	5	5	pu	P	pu	bu	pu pu	P
WWYL CHLORIDE nd	2	5	2	9	B	b	2	8	pu
TRICHLOROFLUCROMETHANE (FR11) nd	8	2	2	B	B	P	2	B	B
DICHLORODIFLUOROMETHANE (FR12) nd	2	2	2	5	g	P	2	8	2
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) nd	2	2	2	ē	pu	pu	pu	pu	P
NZENE	ā	2	5	Pd	pu	pu	8	bo	p
CHLOROBENZENE	2	2	2	2	pu	Di.	2	8	P
ETHYLBENZENE	B	2	5	2	B	pu	ē	2	8
TOLUENE	g	S	2	E	B	pu	5	B	P
m&p-XYLENES nd	P	9	2	2	5	P	5	5	pu
o-XYLENE nd	pu	9	pu	B	pu	pu	8	2	g
TES (75-125% RECOVERY)									
	1113	112%	114%	116%	116%	115%	4611	121%	120%
1,2-DICHLOROETHANE-44 100% 100% 4 BROMOFLUORO BENZENE 07%	102%	104%	106%	107%	107%	100%	110%	2000	113%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #1561

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS



July 20, 2004

Mr. Jay Robinson Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #4-12812 JPL#2

HP Labs Project # GF071404-L6

Mr. Robinson:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #2579).

Project Summary

Soil vapor from 10 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chainof-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

HP Labs appreciates the opportunity to provide analytical services to Geofon on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Ms. Tamara Davis

Lab Director

432 North Cedros Avenue, Solana Beach, California 92075 | 858793.0401 — Fax 858 793.0404 | 148 South Vinewood Street, Escondido, California 92029 | 760 735.3208 — Fax 760 735.2469 | 2373 208th Street, Suite F-1, Torrance, California 90501 | 310 782.2929 — Fax 310 782.2798

GEOFON PROJECT #4-12812 JET PROPULSION LABORATORY 4800 DAK GROVE DRIVE PASADENA, CA NP Labs Project #GF071404-L6 PRELIMINARY DATA

INSTRUMENT: ACILENT 6650 GC / 5973 MASS SPECTROMETER VOLATILE HALDGENATED AND AROMATIC HYDROCARBONS (EPA Mamod 8280). ANALYSES OF SOIL VAPOR SOIL VAPOR DATA IN UGL-VAPOR.

	BLANK	VPI-001	SVW37-	VPB-003	VPD-004	VPC-005	SVW33- VPD-006	SVW33- VPE-co7	SVW33- VPF-008	SVW36- VPB-009	SVW36-VPB- 010 Dup	SVW36- VPC-011
DATE	07/14/04	07/14/04	07/14/04	07714704	07/14/04	67/14/04	07/14/04	97714/04	07/14/04	07714/04	07/14/04	07/14/04
ANALYSIS TIME	6.23	7.40	6.00	828	8.55	9-16	9:41	10:03	10.26	10.49	11:31	12.38
SAMPLING DEPTH (feet)	,	130	185	2	8	90	98	105	120	18	35	25
VOLUME WITHDRAWN (cc)	,	999	000	140	264	200	400	480	3	200	280	280
VOLUME INJECTED	8	2	2	2	8	92	8	R	8	8	8	R
DILUTION FACTOR	9.05	900	90'0	90'0	90'0	900	90'0	500	0.05	90'0	90'0	0.05
CARBON TETRACHLORIDE	pu	28	5	2	Б	pu	5	20	pu	2	90	pu
CHLOROETHANE	pu	2	pu	N	90	pu	5	20	pu	90	2	90
CHLCROFORM	Đ	E	2	2	B	pu	2	2	2	2	2	9
1,1-DICHLORO ETHANE	P	2	2	2	E	P	5	2	9	2	2	2
1,2-DICHLORD ETHANE	ğ	2	2	2	p	P	2	2	5	2	2	B
1,1-DICHLORO ETHENE	gu	E	3	2	2	P	B	8	2	R	2	92
CIS-1,2-DICHLORO ETHENE	Đ	2	pu	2	3	pu	2	P	pu	pu	2	2
TRANS-1,2-DICHLORO ETHENE	9	¥	2	2	B	P	ā	8	2	2	2	2
DICHLOROMETHANE	뒫	2	2	E	B	g	2	B	2	S	2	2
TETRACHLORO ETHENE	2	2	2	2	8	ē	'n	8	2	B	8	2
1,1,1,2-TETRACHLORO ETHANE	2	2	P	2	2	pu	g	be	뫋	2	5	P
1,1,2,2-TETRACHLORO ETHANE	P	2	8	2	2	20	2	2	20	pa	2	ž
1,1,1-TRICHLORO ETHANE	2	E	8	E	2	pu	8	p	ž	8	2	2
1,1,2-TRICHLORO ETHANE	pg.	B	R	R	2	pu	2	pu	Z	P	2	2
TRICHLORO ETHENE	P	2	8	22	6.9	pc	Y	Pa	ž	Dia.	ş	2
VINYL CHLORIDE	2	2	S	2	S	Pu	3	pu	2	pu	2	2
TRICHLOROFLUGROMETHANE (FR11)	P.	2	2	8	8	9	8	P	2	2	3	2
DICHLORODIFLUOROMETHANE (FR12)	2	E	8	Z	2	50	2	P	ğ	9	H	2
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	b	B	2	2	Pu	2	B	pu	B	pu	2	y
BENZENE	pu	M	pu	pu	р	12	pu	Pu	æ	B	pu	p
CHLOROBENZENE	P	2	8	2	B	90	2	pu	B	P	8	pu
ETHYLBENZENE	8	3	R	2	P	pu	8	pu	2	2	8	B
TOLUENE	20	8	B	2	P	2	2	рu	2	2	8	2
m&p-XYLENES	2	B	8	8	pu	2	E	P	2	E	8	R
O-XYLENE	P.	B	pp	D	pu	pu	pd	pu	pu	pu	pu	pu
SURROGATES (75-125% RECOVERY)												
DIBROMODIFLUOROME THANE	121%	118%	119%	123%	122%	121%	118%	11935	114%	114%	100%	125%
1.2-DICHLOROETHANE-64	114%	116%	117%	120%	121%	117%	116%	124%	21176	113%	100%	123%
4 BHOMOPUORO BENZENE	*604	1115	113%	113%	118%	119%	111%	1115	108%	109%	105%	110%

4 BRICANDINUDRO BENZENE 199% 111% 119% 119% 119% ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGR-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579 ANALYSES PERFORMED BY: MARK BURKE DATA REVEWID BY: TAMARA DAVIS





Mr. Scott Brehmer Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #4-12812 JPL#2

H&P Mobile Geochemistry Project # GF102504-L6

Mr. Brehmer:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #2579).

Project Summary

Soil vapor from 93 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chainof-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile Geochemistry appreciates the opportunity to provide analytical services to Geofon on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely.

Ms. Tamara Davis Lab Director

432 North Cedros Avenue, Solana Beach, California 92075 p 858 793.0401 — Fax 858 793.0404 148 South Vinewood Street, Escondido, California 92029 | 760 735.3208 - Fax 760.735.2469 3825 Industry Avenue, Lakewood, California 90712 | 562 426 6991 - Fax 562 426 6995



GEOFON PROJECT # 04-12812-PL JET PROPULSON LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #GF102504-L6

INSTRUMENT: AGLENT 6850 GC / 5973 MASS SPECTROMETER VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Mehod 5260). ANALYSES OF SOIL VAPOR SOIL VAPOR DATA IN UGLE-VAPORE.

	BLANK	VPA-001	VPB-002	VPC-003	VPD-004	SVW31-	VPA-006	VPB-007	VPC-008	SWW35-	SWASS-VPD- 010 Dup	SVW30-	SWWS.	SVW12- VPB-013	SVW12-
DATE	10/25/01	10/25/04	1025/01	102501	102504	10/25/04	10/25/04	102504	10/25/04	10/25/04	102504	10/25/01	1009004	*DODGOOM	1000004
ANALYSIS TIME	7:15	90.0	8.29	8.53	9:16	9.39	10.01	10.23	10.67	11:10	11.33	13.61	11.26	13.40	14.13
SAMPLING DEPTH (feet)	t	8	ĸ	45	28	\$	17	8	9	8	9	99	30	40	90
VOLUME WITHDRAWN (pc)	1	140	200	240	98	320	128	180	220	260	320	300	140	220	300
VOLUME INJECTED	8	8	R	8	30	2	20	2	30	8	20	2	50	8	20
DILLTION FACTOR	90'0	90'0	90'0	900	90'0	900	90'0	900	0.05	90'0	900	600	900	90.0	90'0
CARDON TETRACHLORIDE	pg.	2	p	92	pu	pu	20	20	2	7	1	1	1	,	1
CHLOROETHAME	P	8	P	2	9	2	2	2 2	2 2	1	2 1	2 2	8 7	2 1	2
CHLOROFORM	pu	8	P	2	bu	2	9	2	2	2 2	2 1	2 2	8 3	2 7	2 1
1,1-DICHLORO ETHAME	8	S	P	2	B	P	S	2	. 2	94	9	2 2	2 2	2 2	2.3
1,2-DICHLORO ETHANE	8	В	Ħ	g	P	2	S	2	8	2	90	2	2	7	2
1,1-DICHLORO ETHENE	9	8	pu	92	B	2	bu	90	ā	E	PV	2	P	7	2
CIS-1,2-DICHLORO ETHENE	ğ	E	B	2	P	E	P	2	ē	P	5	22	20	2	8
TRANS-1,2-DICHLORO ETHENE	P	g	B	2	pu	p	pu	2	P	2	8	20	P	2	P
DICHLOROMETHANE	B	2	g	2	P	P	B	2	B	12	B	2	2	2	p
TETRACHLORO ETHENE	P	8	g	2	ğ	2	g	ž	B	B	PQ .	B	Du	12	2
1,1,1,2-1[TRACHLORO ETHANE	pg	8	P	2	ğ	B	g	2	ĕ	pu	S	2	B	2	2
1,1,2,2-TETRACHLORD ETHAMI	B	2	B	ğ	2	5	Di.	ä	g	DQ.	æ	2	p	22	8
1,1,1-TRICHLORO ETHANE	B	8	ğ	9	В	D	B	P.	ğ	20	PV	2	b	H	Pu
1,1,2-TRICHLORO ETHANE	E	2	P	E	B	2	5	ğ	Pu	2	В	2	ğ	2	8
TRICHLORO ETHENE	9	2	P	9	9	P	po	g	8	R	P	2	ā	2	2
VNYL CHLORIDE	P	2	P	2	P	E	B	2	2	2	2	2	P	2	2
TRICHLOROFLUOROMETHANE (FILLT)	2	g	P	2	9	P	b	200	8	E	B	Đ	PE	ž	B
DICHLORODF-LUGROMETHAME (FR12)	ā	2	pu	200	P	P	g	2	g	E	S	2	P	2	5
1,1,2-114CHLOROTROLLOROR THANE (FR113)	B	2	B	2	bg	B	DQ.	B	DQ.	pu	- Pu	2	p	DQ.	pu
BENZENE Cur Andarenteur	2	2	E.	2	S.	B	D.	ğ	g	¥	pu	ug	po	pu	B
CACAGORICA	8	2	DE .	2	D	P	g	2	ğ	E	P	2	be	ğ	Ę
ETHYLINE MZENE.	2	2	DE .	2	B	pu	9	ng D	8	E	E	ğ	pu	5	90
TOLUENE	ž	2	P	2	DE.	pu	Z	B	ğ	2	E	ħ	Du.	N.	2
m&p-XYLINES	2	8	B	P	pu	po	Pd	2	5	pu	E	pu	8	96	2
0-XVLENE	g	2	pu	pu	B	p	Du	ue	pg	pu	pu	9	S	e e	2
SURROGATES (75-125%, RECOVERY)															
DISHOMODIFLUOROMETHANE	1698	24.65	256	03%		7698	86%	25.00	92%	898	97%	508	200	106	398
12-DICHLOROETHANE-de 95% 89% 89% 89%	198	Was a	80%	166	198	90W	85%	24.76	500	24.5	94%	21.5	%25	100	81%
# UNCOROL LUCHO III. NCCNE	683	24.20	22.5	84.9		85%	20%	5490	\$58	91%	2000	2000	9536	24.00	95.80

MU INVICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGAL-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #25%
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT # 04-12812-JPL JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA HP Labs Project #GF 102504-L6

INSTRUMENT: ADILENT 6850 OC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND ARCMATIC HYDROCARBONS (EPA Method 8260). AMALYSES OF SOIL VAPOR SOIL VAPOR DATA IN UGIL-WAPOR.

	AMBIENT	SVWS-	SVW1-	SVW1-	SVW1-	SVW2-	SVW3-	SVW3-VPB-	SVW3-	SVW7.	SVW7.	SVW4-	SVM8-	SVWB.	SVW8-
With Ultra-	BLANK	VPB-615	VPA-016	VPB-017	VPC-018	VPA-019	VPB-020	021 Dup	VPC-022	VPA-023	VPB-024	VPB-025	VPC-026	WPD-027	VPE-028
DATE	10/25/04	10/25/04	10/26/04	10/26/04	10/26/04	10/26/04	10/26/01	10/26/04	10/26/04	10/26/04	10/25/04	10/25/04	10/26/04	10/26/04	10/26/04
ANALYSIS TIME	7:10	808	6.27	8.51	10.54	4111	11/41	12.04	12.26	12.50	13:14	16:12	16.35	15.58	16:31
SAMPLING DEPTH (feet)	J	ø	40	124	33	10	R	R	9	30	35	30	3	2	90
VOLUME WITHORAWN (bc)	ţ	8	100	144	192	400	176	236	220	140	200	140	260	340	420
VOLUME INJECTED	8	8	8	8	8	90	8	8	8	8	8	30	30	8	8
DILUTION FACTOR	90'0	90'0	600	90'0	90'0	90'0	90'0	900	90'0	900	90'0	900	90'0	90'0	90'0
CARBON TETRACIA, ORIDE	20	5	S	8	pu	pu	2	pu	pu	20	pu	pu	pu	pu	2
CHLOROETHANE	5	B	p	2	E	B	5	F	Pu	8	P	pu	2	P	8
CHLOROFORM	2	pu	pu	8	P	bu	P	2	Pu	E	pu	8	B	pu	B
1,1-DICHLORO ETHANE	90	pu	p	pg	pu	P	pu	2	pu	S	2	ba	8	B	E
LZ-DICHLORO ETHANE	9	Pu	E	2	ы	B	pu	ğ	pu	8	Plu	8	2	Ð	P
1,1-DICHLORO ETHENE	pu	pu	po	P	P	P	pu	90	pu	2	pg	P	B	pu	2
CIS-1,2-DICHLORO ETHENE	pu	pu	E	¥	문	2	P	5	pu	2	pu	B	ā	P	B
TRANS-1,2-DICHLORO ETHENE	pu	B	E	ğ	pu	2	5	5	B	2	pu	2	ě	P	g
DICHLOROMETHANE	PL .	Die.	¥	pu	pu	2	P	ğ	В	8	B	8	2	DU	Pu
TETRACHLORO ETHENE	Di.	pu	8	Ħ	pu	2	p	Ę	R	2	8	B	2	Pu	2
1,1,1,2-TETRACHLORO ETHANE	pu	pu	E	pu	pu	2	P	pu	P	Pu	2	M	ž	Du	Pol
1,1,2,2-TETRACHLORO ETHANE	pu	ğ	8	P	2	2	Đ	pu	P	PL	g	2	92	P	g
1,1,1-TRICHLORO ETHANE	pu	g	2	P	9	20	Đ	pu	E	B	B	g	p	p	2
1,1,2-TRICHLORO ETHANE	pu	ā	2	Ð	5	2	8	pu	E	P	E	2	pu	P	2
TRICHLORO ETHENE	pu	B	B	P	B	B	B	P	B	pu	Ħ	38	Du	B	g
WAY, CHUCRDE	2	E	g	B	2	2	5	pu	E	PL	E	20	pu	P	pu
TRICHLOROFLUOROMETHANE (FR11)	2	8	pu	pu	B	B	g	pu	2	5	2	2	2	2	g
DICHLORODIFLUOROMETHANE (PR12)	2	2	g	pu	2	B	8	pu	ž	bu	2	Die Co	pu	2	9
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	pu	pu	pu	pu	2	pu	8	pu	pu	pu	pu	D	pu	pu	pg
BENZENE	pu	20	pu	DI	pq	pu	pg	pu	PIG	pu	pg	Pu	pu	pu	gu
CHLOROBENZENE	pg	pq	pu	B	2	pu	8	ut	2	pu	ğ	ğ	pu	pu	2
ETHYLBENZENE	2	2	B	E	E	P	E	pu	P	pu	B	Pu	pu	P	pu
TOLUENE	Pil	2	pu	90	2	2	2	8	2	B	2	Ē	E	200	P
m&p-XYLENES	2	8	p	2	2	P	2	9	B	pg	2	pu	ğ	2	B
e-XYLENE	p	PQ.	pu	pu	pu	pu	2	pu	nd	pu	nd	pu	pu	PG.	pu
SURROGATES (75-125%, RECOVERY)															
DIBROMODIFLUOROMETHANE	98%	%56	%86	77%	9458	84.6	858	93%	34%	21.0	91%	468	426	90%	92%
1,2-DICHLOROETHANE-44	1456	91%	91%	95%	93%	35	87%	\$100	87%	200 W	9008	5,00	91%	9400	87%
4 BROMOFLUORO BENZEME	96%	16%	92.20	94%	80%	2.25	85%	9036	93.8	82%	91%	100%	848	\$06	93%

4 BROWDFLUORD BENZENE 95% 92% 94% 1 MW NO MOICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGL-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DONS MOBILE LABORATORY #2578
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT # 04-12812-0PL JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA HP Labs Project #C# 102504-LS

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND ARCMATIC HYDROCARBONS (EPA Method \$205). ANALYSES OF SOLL VAPOR SOLL VAPOR DATA IN UGA-VAPOR.

	BLANK	SVW11- VPA-029	SVW11- VPB-030	SVMP- VPA-031	SVWB-VPA- 032 Dup	SWM9- VPB-033	SVM9- VPC-034	SVWB- VPD-035	SVW9-	5VW10- VPB-037	SVW10- VPD-038	SVW14- VPA-038	SVW14- VPB-040
DATE	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04	10/27/04
ANALYSIS TIME	7.28	8.14	8.38	90.6	9-29	9.63	10:17	10.40	11.04	1138	11:50	13:30	13.53
SAMPLING DEPTH (her)	T	20	9	2	8	25	98	2	87	38	60	wh	10
VOLUME WITHDRAWN (cc)	t	140	220	140	200	200	280	340	408	200	336	8	100
VOCUME INJECTED	20	8	92	88	50	92	8	8	8	20	20	8	8
DILUTION FACTOR	0.05	900	0.00	90'0	90'0	90'0	90'0	900	90'0	900	900	0.00	900
CARBON TETRACHLORIDE	8	pu	ng	pu	8	2	pu	pu	pu	pu	pu	2	2
CHICORDETHANE	8	200	2	Pi	DQ.	2	2	P	pu	8	P.	ng	p
CHLOROFORM	2	2	2	pu	8	E	ä	P	5	50	2	2	pu
1,1-DICHLORO ETHANE	B	2	펄	Pu	В	5	B	Pu	P	20	2	P	PE
1,2-DICHLORD ETHANE	2	2	P	pu	2	E	2	pu	2	8	20	Đ	B
1,1-DICHLORO ETHENE	90	2	BE	Б	B	2	To the	DU	92	9	2	P	P
CIS-1,2-DICHLORO ETHENE	B	2	g	B	B	P	g	B	ĝ	g	2	B	p
TRANS-1,2-DICHLORO ETHENE	ğ	5	DE.	P	pg	E	멸	Di.	92	pu	ng.	P	nd
DICHLOROMETHANE	ğ	92	P	P	pu	2	2	P	2	B	ng.	Pu	ild.
TETRACHEORO ETHENE	ğ	gu	E	5	pu	S.	뒫	2	Pu	pu	pu	P	B
1,1,1,2-JETRACHLORO ETHANE	2	ē	pu	ğ	8	2	Đ	Ę	9	pu	pu	P	pp
1,1,2,2-TETRACHLORO ETHANE	pu	ē	pu	8	20	5	p	8	pu	pu	P	2	8
1,1,1-TRICHLORO ETHANE	ш	P	8	8	ğ	g.	ğ	ng.	p	2	pu	9	g
1,1,2-TRICHLORO ETHANE	g	98	B	2	2	g	B	2	pu	B	pu	8	B
TRICHLORO ETHENE	g	pu	R	2	2	Đ	pu	2	Pu	ä	g	2	ğ
VINYL CHLORIDE	pu	p	P	B	2	g	B	2	8	Pd	Ŋ	2	N
TRICHLOROFLUOROMETHANE (FR11)	pu	p	E	Bu	2	9	pu	20	P	B	P	¥	g
DICHLORODIFLUOROMETHANE (FR12)	Ħ	3	2	g	50	2	S	50	8	2	B	2	P
1,1,2-TRICHE, OROTRE LUDROETHANE (FR113)	pu	B	pu	ug	ng	pu	pq	pu	pu.	3.9	3.9	ng	ng
BENZENE	pu	pg	pu	pu	ng g	pu	pu	pu	P	2	pu	B	pu
CHLOROBENZENE	pu	8	2	pu	Pu .	PL	2	pu	pu	2	2	2	2
ETHYLBENZENE	2	E	2	pu	pu	2	2	pu	8	2	2	Ę	2
TOLUENE	P	8	P	pu	pu	Đ	P	pu	P	nd	90	P	2
m&p-XYLENES	2	3	2	pu	pu	2	2	pu	E	2	2	P	pu
0-XYLENE	pu	2	pu	pu	pu	g	pu	pu	pd	5	8	nd	pu
SURROGATES (75-125% RECOVERY)	1000							200	- A 50 C-	- G G F =		2000	100
DIBROMODIFUUOROMETHANE	576	9636	54%	22	3500	1694	94%	95%	95%	34%	95%	91%	22
1,2-DICHLOROETHANE-04	9528	88%	91%	93%	92%	90%	34%	8936	90%	94%	91%	90%	80%
4 BROMOFLUORO BENZENE	94%	95%	%06	93%	94%	91%	81%	91%	9526	90%	92%	83%	91%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 LIGAL-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT # 04-12812.JPL JET PROPULSION LABORATORY 4800 DAK GROVE DRIVE PASACENA, CA

HET LINE PROJECT ROBERT 6800 GC 15073 MASS SPECTROMETER
INSTRUMENT: AGAILBAT 5800 GC 15073 MASS SPECTROMETER
VOLATILE INACCORDANZED MAS ORGANITIC PRODUCEDBONS (EPA Method 1050); ANALYSIS OF 501, VAPOR
YOUR VALOR DATA NA LICE AMADON

	BLANK	SVW33- VPA-041	SVW33- VPB-042	SVM33-VPS- 643 Dag	VPC-044	VPC.045	5VW33- VPE-048	SWWID-	SVW33-	SW03- VP2-048	SVW36- VPA-050	SVM36- VPB-051	SVW36- VPC-002	SVW36 VPD-063	SYMOSYMP.	\$0000 AV	SVW33- VPB-056	SVM32- VPL087
DATE	10/25/04	102504	102804	10/28/24	1028/04	ургания	102854	102804	10/25/04	10/26/04	1025/04	102504	102806	10/25/01	10/20/04	10/28/04	100004	102504
ANALYDIS TIME	20	7.7	7.50	61.9	8.41	808	9.20	10.34	10,11	10.56	11:19	12.35	12.58	13.22	13.45	14:44	14:34	14.57
SAMPLING DEPTH (hee)	1	R	40	9	8	8	186	120	140	900	90	n	98	2	20	g	9	180
VOLUME WITHORAMY (III)	t	140	220	280	300	400	190	80	620	900	140	500	280	98	977	428	23	780
VOLUME INJECTED	2	30	30	2	8	8	2	8	8	20	R	R	92	8	2	92	30	2
OLUTION PACTOR	600	900	900	990	900	999	900	900	900	9000	900	800	900	95 o	900	900	900	900
CARBON 1ETRACHLORIDE	pu	bi	py	15	2	pi.	5	5	E	Die .	12	pu	12	18	N	2	12	B
CHLOROETHANE	B	9	B	2	8	96	B	2	g	Di.	2	B	2	P	P	20	8	N
CHLOROPORM	P	2	P	E	R	Ę	g	2	8	P	2	2	2	2	2	2	2	R
1,1-CICHLORD ETHANE	E	2	ų	2	5	P	5	Б	S	B	2	pu	2	8	5	2	2	5
1,3 CICHLORO ETHANE	Y	y	¥	P	2	ē	g	P	p	8	2	p	2	P	9	2	2	2
1,5 DICHCORD ETHENE	12	2	¥	2	2	2	g	2	ħ	R	2	E	2	8	S	2	8	2
CIS-12-DICH, DRO ETHENE	12	5	ğ	B	ĸ	B	z	2	Б	E	P	Đ	H	P	pu	5	E	92
TRANS-1,2-DICHLORD ETHENE	Ų	y	B	2	5	90	ğ	9	R	2	Y	Did.	¥	Z	M	Ľ	2	2
DICHLOROMETHANE	E	ž	ě	B	2	B	S	P	y	Ħ	ğ	P	1	2	2	90	E	2
TETSACH, ORD, ETHENE	B	2	Die .	8	8	2	S	2	P	R	Ħ	R	12	B	2	2	S	ž
1,1,1,2-TETRACHLORD ETHANE	pu	B	12	H	3	B	2	pu	S	ä	ñ	2	ä	P	ğ	9	P	2
1,1,2,2-TETRACHLOND ETHANE	P	B	ų	Y	R	ş	2	9	ğ	ě	ğ	2	£	Ħ	H	2	5	ž
1.1,1-TRICHLORO ETHANE	R	2	I	ğ	2	ğ	P	ğ	å	7	pu.	2	£	2	ž	ä	2	2
1,1,2-TRICALORO ETHANE	Pi	ā	E	g	8	8	2	3	ğ	7	ñ	g	pu	R	2	8	R	2
TRICH, CRO ETHENE	2	¥	P	8	8	8	S	g	P	p	ħ	2	Di.	ħ	3	90	B	2
VINY, CHUCKIDE	ĸ	ų	H	g	2	ğ	5	g	ğ	9	ä	2	E	Ľ	B	9	B	2
TRICH, CRICHLUORCINETHANE (FRET)	Ľ	ğ	F	r	ħ	¥	2	2	92	2	E	P	No.	r	Ä	P	Б	¥
DICHLORODIFLUCHONETHANE (FR12)	E	¥	E	g	8	8	Ę	¥	90	100	pii	8	DE.	2	Y	2	5	E
1,12-TRICHLOROTRIFILIOROETHANE (FRTT3)	P	ų	H	B	p	ng.	9	p	90	94	DE.	pu.	M	2	ħ	92	E	'n
BCNZDMC	pu.	100	pu.	M	pu.	ы	pu	P	P	E	12	pu	Ħ	pu	99	8	8	M
CHLOMOBENZENE	8	¥	2	8	5	ğ	8	ŧ	'n	8	F	H	E	¥	'n	8	2	ħ
ETHYLBENZDNE	R	ħ	2	S	8	¥	5	g.	92	90	2	N	pu	¥	ų	ā	B	E
TOLUGNE	2	Ä	F	5	8	S	2	8	ä	8	M	N	P.C	¥	ħ	ě	5	2
m&p-XYLENES	8	ğ	B	7	2	ž	P	5	P	8	E	78	E	ž	¥	2	8	Z
B-XYLENE.	M	E	B	P	rid	¥	pu	g	9	9	B	H	E	ä	¥	E	B	P
SURROGATES (TS 129% RECOVERY)	Self Self		201.000	20,000	- 355	- 20-7	25.5		0350	751								
DISHOMODIFLUDROMETHANE	543	858	43	1698	25%	948	1998	16%	558	27.0	90%	200	313	53	598	808	200	100
13-DICHLORDETHANE-SE	NEW T	802	216	N296	1	200	31%	ď.	Pa's	914	100	90%	É	900	500	814	97%	200
4 BH DAOPLUONO BENZENE	4	ź	818	90.00	802	6075	210	215	202	200	20100	2440	50%	200	MON	DOM	20.00	9000



GEOFON PROJECT # 04-12N12-JPL JET PROPULSION LABORATORY 4800 DAK GROVE DRIVE PASADENA, CA HP Labs Project #OF 102504-L6

INSTRUMENT: AGLENT 5850 GC / 5973 MASS SPECTROMETER VOLATILE HALCGENATED AND AROMATIC HYDROCARBONS (EPA Method 6290). ANALYSES OF SOIL VAPOR DATA IN UGA.-VAPOR.

									-		-
	BLANK	SVW32- VPJ-058	SVWZ7- VPA-059	SVWZ7-	SVWZ7-	SVW27- VPD-062	SVWZ7- VPE-063	SVW27- VPF-064	SVWZ7-VPF- 065 Dup	SVWZ7- VPG-096	SWWZ7.VPL 067
DATE	10/28/04	10/29/04	10/29/04	10/28/04	10/29/01	10/29/04	10/29/04	10/29/04	10/29/04	10/29/04	10/29/04
ANALYSIS TIME	7:19	8:00	6.30	6.53	0:17	9:39	10.02	10.24	10:46	11.21	11:44
SAMPLING DEPTH (feet)	1	195	8	38	8	26	100	120	120	140	180
VOLUME WITHDRAWN (sc)	ı	940	140	200	300	400	460	540	009	620	200
VOLUME INJECTED	20	8	20	- 20	2	8	8	8	20	20	92
DILUTION FACTOR	90'0	90'0	90'0	90'0	90'0	90'0	900	900	0.05	900	90.0
CARBON TETRACHLORIDE	B	2	2	3	92	22	2	20	pu	pu	pu
CHLOROETHANE	2	pu	N	2	P	Pu	2	pe	5	2	Pu
CHLOROFORM	B	P	Se .	2	P	뒫	12	12	8	E	2
1,1-DICHLORO ETHANE	8	pu	ng G	ē	Pu	2	2	B	2	5	2
1,2-DICHLORO ETHANE	D.	Ħ	Ħ	2	5	pu	2	P	g	2	92
1,1-DICHLORO ETHENE	8	pu	po	9	pu	Pu	12	pu	2	2	2
CIS-1,2-DICH, ORO ETHENE	2	p	pu	2	B	Pu	92	P	B	Pu	2
TRANS-1,2-DICHLORO ETHENE	pu	P	ğ	92	P	P	2	P	2	2	20
DICHLOROMETHANE	2	8	2	9	P	B	pu	P	g	B	2
TETRACHLORO ETHENE	2	2	B	pu	pu	g	뀰	B	2	12	2
1,1,1,2-TETRACH, ORO ETHANE	2	8	pg	pu	pu	Pu	pu	IN	2	pg.	8
1,1,2,2-TETRACHLORO ETHANE	pu	2	pu	B	pu	Đ	g	P	g	90	2
1,1,1-TRICHLORO ETHANE	92	E	탪	В	D	pu	P	Ħ	2	g	2
1,1,2-TRICHLORO ETHANE	B	5	g	9	p _u	pu	9	Pil	g	2	B
TRICHLORO ETHENE	92	2	20	pu	p	5	pu	P	p	8	2
VWY, CHLORIDE	ş	B	2	B	2	8	P	8	g	Z	pu
TRICHLOROFLUCROMETHANE (FR11)	nd	P	P	Pu	2	8	pu	В	2	2	pu
DICHLORODIFLUOROMETHANE (FR12)	P.	E	DE .	P	E	8	pu	B	2	90	pu
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	pu	nd	pu	pu	D	g	pu	pu	Di.	nd	pu
BENZENE	pu	pu	nd	pu	pu	pu	pu	pu	pu	pu	pu
CHLOROBENZENE	pu	2	pu	pu	P	8	pu	2	2	P	PL
ETHYLBENZENE	P	ğ	pu	pu	2	p	50	pq	pu	pu	pu
TOLUENE	p	2	pu	8	9	E	g	2	ē	pu	pu
m&p-xy/LENES	P	ğ	B	pu	E	2	2	Pu	g	2	pu
o-xyr, ENE	pu	pu	pu	pu	pu	g	pu	B	Pid	pu	pu
SURROGATES (75-125% RECOVERY)	11000	2000		1000	200					10000000	
DIBROMODIFLUOROMETHANE	94%	343	95%	98%	\$58	856	898	47%	878	35%	14.76
1,2-DICHLOROETHANE-44	#68# #68#	\$88	21%	91%	87%	92%	210	848	91%	30%	196
+ BACMCP-LUCACO BENZENE	NO.	200	STOR.	24.20	N.	8328	80%	MA	400	912	4934

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGA.-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579
ANALYSES PERFORMED BY: MARK BURKE
DATA REVENUE BY: TAMARA DAVIS



GEOFON PROJECT # 04-12812-JPL JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA HP Labs Project #GF 102504-L6

INSTRUMENT AGRENT 6850 GC / 5973 MASS SPECTROMETER

	AMBIENT BLANK	SVW35 VPB-068	SVW3S- VPE-069	SVWZ6- VPA-070	SVW28- VPD-071	SVW28- VPE-072	SVM26.	SVW26-	SVW28- VPH-075	SVW26-VPH- 076 Dup	SVW25- VPA-077
DATE	11/01/04	11/01/04	11,01,04	11/01/04	11,01,04	11,01,04	11/01/04	11/01/04	11,0104	11/01/04	11/01/04
ANALYSIS TIME	9:36	9:14	939	10:12	10.37	11:00	11:34	11.57	1221	1244	13.15
SAMPLING DEPTH (heet)	1	8	90	R	90	105	200	140	160	160	20
VOLUME WITHDRAWN (cc)	1	200	380	140	200	480	620	620	720	780	140
VOLUME INJECTED	2	8	8	8	92	92	2	R	8	8	8
DILUTION FACTOR	90'0	0.05	90'0	900	90'0	90'0	900	900	0.05	90'0	90'0
CARBON TETRACHLORIDE	2	Pu	pu	90	pu	2	3.4	2	2	96	2
CHLOROETHAME	2	2	2	Pu	100	E	2	2	2	2	1 2
CHLOROFORM	2	12	2	2	8	2	2	2	2 2	2	2
1,1-DICHLORO ETHANE	2	9	pu	pu	8	2	5	2	8	2	2
1,2-DICHLORO ETHANE	S	E	Ę	g	P.	2	2	50	5	pe	pu
1,1-DXCHLORO ETHENE	8	2	pu	Pu	2	g	2	2	8	P	Pul
CIS-1,2-DICHLORO ETHENE	8	2	E	ğ	ž	2	5	90	2	P	2
TRANS-1,2-DICHLORO ETHENE	2	2	B	B	B	2	2	2	8	Pu	2
DICHLOROMETHANE	S	E	P	¥	g	pu	2	2	5	pu	2
TETRACHLORO ETHENE	8	2	ng	ş	ğ	2	B	ě	B	P	Pu
1,1,1,2-TETRACHLORO ETHANE	8	B	ag	2	pu	9	B	gu	5	PL	2
1,12,2-1ETRACHLORD ETHANE	2	Z	2	2	S C	2	B	pu	2	pu	2
1,1,1-TRICHLORO ETHANE	S	2	ž,	잗	Ę	9	pu	ğ	8	pu	N
1,12-TRICHLORO ETHANE	5	B	2	발	E	2	2	p	8	pu	ë
TRICHLORO ETHENE	2	2	2	Pd.	ğ	2	P	pc	2	ρų	2
VINYL CHLORIDE	2	2	2	pu	20	2	pu	Di.	nd	pu .	Z
TRICHLOROFLUOROMETHANE (FR11)	2	E	2	펻	2	2	B	2	2	pu	2
	S	5	2	ğ	2	2	뒫	2	ā	pu	Y
1,12-TRICHLOROTRIFLUOROETHANE (FR113)	8	ng	ag	ng	2	bu	pu	pu	pu	po	g
BENZENE	2	20	2	pu	B	pu	pu	pu	pu	pu	Die .
CHLOROBENZENE	2	20	2	nd	ğ	pu	PL	Đ	pg	pu	P
ETHYLBENZENE	90	2	P.	g	9	pu	Pu	뒫	pu	pu	P
TOLUENE	9	E	2	nd nd	9	pu	P	P	pu	B	2
m&p-XYLENES	2	ğ	a a	nd nd	20	P	B	p	B	g	2
oxylene	nd	ng	nd	pu	pu	pu	pu	pu	nd	pu	pu
SURROCATES (75-125%, RECOVERY)					Y						
DIBROMODIFLUOROMETHANE	96.8	5500	9,96	91%	%96	4556	1606	#9#	9750	25.00	858
1,2-DICHLOROETHANE-64	92%	82.00	93%	88%	91%	95%	44.69	210	9628	N-69	80%
4 BROWN LUCKO BENZENE	808	200	808	No.	200	10.00	1000	200	2000	200	20.00.00

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGL-WAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579
ANALYSES PERFORMED BY: MASK BUINKE
DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT # 64-12612-81, JET PROPULSION LABORATORY 4800 OAK GADVE DRIVE PASADENA, CA

HET LIBBE PROJECT RESIDENCE SOLD SOLD MASS SPRICTROMETER
HISTRILMENT: ACILENT 6850 GC / SOLD MASS SPRICTROMETER
VOLATILE HALOGENATED AND AROMATIC HYDROCARSONS (SPAMINING \$201 ANALYSES OF SOIL VAPOR
SOIL VARIOR DATA IN LICEL-VAPOR

SOLL VINCOLD IN INCIDENTIAL	AMBIENT	SWW25-	SVM25-	SYMOS	SYNTSA	SVW3P-	SVM32-	SVM37-	SVW37-	SVW37.	SVWS3VVP	SVW37	SVW34-	SWO	SVW38-	SYMON	SWOR
	BLANK	WEA	VP1-070	VPJ-080	VPC-081	VPB-082	VPD-063	VPE-088	VPH-065	VPI-085	067 Dup	VPJ-088	VPE-088	VPF-000	VPD-091	VPF-092	VPJ-003
DATE	11/02/04	11/02/04	11/00/04	11/02/04	1102094	110204	11/02/04	110204	11/02/04	11/02/04	1100004	11/00/04	11/02/04	11,02,04	1100004	11,00004	11,0204
ANALYSIS TIME	7.10	2,42	90.0	8.30	8.56	0.20	0.43	10.09	10.36	11.00	11.22	12-17	12.43	13-10	13.34	13.58	14.21
SAMPLING DEPTH (Net)	ı	2	100	9	8	*	8	100	155	170	170	163	2	8	8	110	673
VOLUME WITHDRAWN (xx)	ı	220	780	820	300	2200	360	460	989	745	900	800	380	440	380	900	740
VOLUME INJECTED	92	8	82	92	8	8	20	R	8	20	2	8	20	98	8	8	8
DLUTON FACTOR	900	900	0.05	900	900	900	0.05	0.06	0.00	0.00	900	900	0.05	900	900	60.0	90'0
CARBON TETRACH CRIDE	2	2	Đ.	p	be	y	8	8	90	99	2	90	2	20	100	90	50
CHLONDETHANE	pu	2	Du	D	pu	age	90	S	94	2	200	90	2	pu	8	90	5
CHLOHOFORM	pu pu	2	pu	W	pu	R	2	S	2	2	2	5	9	9	8	2	2
1,1-DICHLORO ETHANE	P	2	8	8	po	2	Z	S	2	9	2	2	2	P	3	9	2
1,2-DICHLORD ETHANE	E	ě	8	Di.	P	2	Я	2	2	9	2	2	90	8	2	Z	E
1,1-DICHLORO ETHENE	2	2	9	ð	2	2	B	8	Đ	9	2	5	9	2	g	ij	P
CS-12-DICHLORD ETHENE	P.d	8	9	Б	2	2	В	8	pg	3	2	ğ	p	2	ğ	pu	P
TRANS-1,2-DICHLORD ETHENE	P	2	S	2	2	2	2	ä	pu	3	94	Į	2	2	ğ	P	pu
DICHEGROMETHANE	Ę	S	8	p	2	2	2	ě	pu	3	ı	r	p	5	ğ	9	P
TETRACH CORD ETHENE	E	S	8	pu	2	8	B	2	ī	2	ı	nd pu	8	92	ě	ě	P
(11,12-TETRACHORO ETHANE	8	8	8	pu-	2	ğ	2	Į	2	8	90	90	8	pu	¥	ě	2
1,12,2-TETRACH, ORO STIWNS	90	ş	8	pu	F	ğ	2	g g	pu	8	94	90	ž	2	ě	P	I
1,1,1-TRICHLORD ETHANE	8	S	2	2	¥	¥	2	2	p	5	90	B	B	P	Z	ä	Z
1,1,2,TRICHLORO ETHAME	8	8	P	P	10	¥	E	2	8	B	g	B	8	2	¥	Я	E
TRICHLORD ETHENE	8	8	2	pu	p	¥	2	g	8	E	ă	ş	Я	P	E	В	1.4
VARM, CHLORDE	2	8	8	2	ä	à	nd nd	S	20	ā	ä	ñ	S	DE C	2	8	20
TRICHLOROPLUCRCMETHANE (FR11)	ğ	8	3.4	24.20	N	B	E	g	8	2	ħ	S	8	2	pe	8	Z
DICHLORODIFLUOROMETHANE (FR12)	ž	2	po	P	¥	¥	ñ	ş	B	2	N	S	8	pe	9	P	N.
1,12-TRICH, CROTRIFLUCROETHANE (FR113)	PQ.	5	pu	B	pu	pu	M	N	pq	2	ħ	B	b	20	90	bu	1.5
BENZENE	P4	2	Đ	P	¥	B	Til.	90	90	py	Dw	90	2	pu	ne	tot	nd
CHLOROGENZENE	2	2	8	P	Ħ	P	¥	S	8	92	ħ	P	5	ľ	B	pu	94
ETHYLBENZENE	2	8	Ä	2	ž	P	2	N	pg.	R	2	pu	2	pu	96	pu.	Pri ing
TOLUENE	ğ	9	B	TE CO	ğ	100	M	ž	2	P	Ŗ	p,	8	pu	ě	Pa	4.0
mlp XYLENES	2	8	ē	2	Į	Đ	2	S	2	B	Die .	pu	pu	2	y	2	12
exylene exylene	2	2	B	pu	pu	pu	M	×	tu	H	pe	pu	pu	pu	ä	2	pu
SURROGATES (75-125% RECOVERY)				1000													
DISHONOCHLUCHOMETHANE	500	515	200	808	\$50	444	25.55	1600	100	1000	1,00	5,66	828	N.M.	57.6	80k	102%
1,2-DICHLORDETHANE-da	242	568	4.26	PA'S	80%	\$18	N. N.	266	100	500	100%	456	500	Park	500	22	100%
4 BHOMOFULORO BENZENE	20%	242	92%	500	97%	93%	200	550	200	MX	23%	24%	500	500	25.00	N To	100%

A BROWNER NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGAL-VAPOR FOR EACH CONFOUND ANALYSES PERFORMED ON SITE IN CA DOHS MORILE LABORATORY #3519
ANALYSES PERFORMED BY: MARK BURKE
DATA HEVEWED BY: TAMARA DAVIS



GLOFON PROJECT # 04-12812-JPL JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA HP Labs Project #QF 102504-L6 INSTRUMENT: AGLENT 8850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATILD AND AROMATIC INTEROCARBONS (EPA Metrof 6260). AMALYSES OF SOIL VAPOR SOIL VAPOR DATA IN UGAL-VAPOR

	AMBIENT	SWW.MPB.	SVAMELVER. SVAMELAPITE SVAMELAPIE.	SVAME VOE	SVW+E	SAMA	CAMBE APPL	Cinnis	South	-	The second second
	BEANK	004	980	960	VPB-097	VPC-098	099 Due	VPO-100	VPE-101	VPF-102	5VW3B-VP3
DATE	11/03/04	11/00/04	11/03/04	11/03/04	110304	11,00,004	11/03/04	11/03/04	11/03/04	110304	11/03/04
ANALYSIS TIME	7.50	8:17	8.40	0.00	9:31	10.01	10.26	10.49	11.24	12.03	43-13
SAMPLING DEPTH (feet)	1	40	11	8	40	99	8	7.6	10	100	130
VOLUME WITHORAWN (cc.)	1	220	368	444	220	300	360	366	440	480	2002
VOLUME INJECTED	2	2	R	8	8	30	8	30	8	8	
DILUTION FACTOR	90'0	900	90'0	90'0	900	0.05	90'0	0.05	0.06	90'0	900
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1,1-DICHLORO ETHANE	5	2	2	1 2	1 2	2 2	2 2	2 1	2 3	2 7	2 7
1,2-DICHLORD ETHANE	2	8	2	20	2	. 2	2 2	1	2 3	2 7	2 1
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TETRACHLORO ETHENE	8	2	2	8	pu	8	2	2	2 2	2 1	2 3
1,1,1,2-TETRACHLORO ETHANE	2	DV	P	В	pu	90	2	90	2	2 2	2 1
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TRICHLOROFLUORCMETHANE (FREE)	pu	pu	pu	pu	2	pu	20	B	2	2	2
DICHLORCOIFLUOROMETHAME (FR12)	pu	PIG	pu	ğ	pu	P	2	E	ā	2	8
1.1.2-TRICHLOROTRIFLUOROETHANE (FR113)	pu	pu	pu	pu	pu	pu	P	nd	P.	2	8
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CHLONDRENZENE	20	nd	P	B	DE .	pu	P	5	20	Du.	2
ETHYLBENZENE	pu	pu	B	B	pu	pu	B	PG .	2	20	2
TOLUENE	2	pu	Pu	pu	E	pu	P	20	2	2	2
m&p-XYLENES	2	nd nd	pu	p	Pil	P	2	ā	5	20	2
o.XVLENE	pu	E S	pu	pu	pu	pu	pu	5	P.	2	8
SURROCATES (75-125% RECOVERY)	93.55	1883	200								
DIBROMODIFLUOROMETHANE	%96	566	0435	95%	5,06	9,96	250	2,40	566	96%	956
1.2-DICHLORDETHANE-64	95%	20101	97%	9696	95%	1586	14,04	9000	9666	36%	95%
4 BROMOFLUORO BENZENE	5,96	92.4	868	93%	828	84%	198	80%	95%	86%	1600

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGL-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED DW-SITE IN CA DOMS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: TAMARA BURKE
DATA REVIEWED BY: TAMARA DAVIS

APPENDIX B-2 CNIN-OF-CUSTODY FORM

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CHAIN-OF-CUSTODY RECORD

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22622 GOLDEN SPRINGS DR., SUITE 270

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22832 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 81765 - (909) 396-1455

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22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7455

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APPENDIX B-3:

DAILY OPENING, CLOSING, AND CONTINUING CALIBRATION VERIFICATION REPORTS

H&P Project #GF020204-L6 LAB-6	SUPPLY SOURCE: SUPPLY SOURCE: INSTRUMENT: AG		CALIBRATION VTROL (CLOSI	2E: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-773 2E: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-774 AGII ENT 6850 GC / 6973 MASS SUPERCOLOT #LSS-774	PELCO LOT	#LSS-773
COMPOUND	150	OPENING STANDARD		2ND SOURCE	2ND SOURCE (1ug/L) CLOSING	SING
CABBON TETDACLI ODICE	1	KESOLI	%DIFF	MASS R	RESULT	%DIFF
CHI ODOUTHUMIN	20	51.2	2.4%	50.0	49.1	1 8%
OH OBOROR	20	56.5	13.0%	50.0	0.75	20.00
CHLOROPORM	20	54.0	8.0%	20.0	2	9,0
1,1-DICHLORO ETHANE	20	58.7	42.40	9 6	0.4	9.0%
1,2-DICHLORO ETHANE	3 5		20.00	20.00	57.0	14.0%
1.1-DICHLORO FTHENE	8 8	7.40	0.4%	20.0	52.3	4.6%
CIS-1 2-DICHI DED ETUENE	2 :	54.7	9.4%	20.0	54.5	9.0%
TDANG 4 2 DIGUI ODO TTI ITITI	S	54.9	8.8%	50.0	53.4	6.8%
DOLL OF METHODS EITHENE	99	56.1	12.2%	50.0	55.5	11 0%
DICTION HANE	20	56.6	13.2%	50.0	58.7	20.00
I ET INACHLORO ETHENE	90	53.0	7 800	0.00	000	0.470
1,1,1,2-TETRACHLORO ETHANE	9	9 4	0.00	0.00	52.3	4.6%
1.1.2.2-TETRACHI ORO ETHANE	000	0.00	13.0%	20.0	55.8	11.2%
1 1-TRICHI OBO ETHANE	200	299	10.4%	50.0	48.5	3.0%
1 1 2 TRICH OBO ETTANNE	20	51.5	3.0%	50.0	49.8	0.4%
TOTO THE OWNER OF THE OWNER OF THE OWNER O	20	53.4	6.8%	50.0	52.3	4 6%
WORKS OF DENE	20	51.6	3.2%	50.0	809	86
VINTE CHLORIDE	20	56.0	12.0%	50.0	54.1	80° 8
PICTED COOL CONTROL (PK11)	20	58.1	16.2%	50.0	57.7	15.4%
1 1 2 TOICH COOTHING (FR12)	20	51.9	3.8%	50.0	53.6	7.2%
PENZENE PENZENE	20	57.2	14.4%	50.0	55.2	10.4%
CHIOBOBENZENE	20	56.8	13.6%	50.0	56.4	12.8%
ETIVI DENZONE	S	53.6	7.2%	50.0	54.0	8 0%
TOLIENE	20	55.9	11.8%	50.0	54.9	2 8%
- OCCENTED	20	53.8	7.6%	50.0	53.1	200.0
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	100	113	13.1%	100.0	112	12.0%
CALLENE	20	55.2	10001		1	2

SOIL GAS INITIAL LCS STANDARD REPORT (CALIBRATION VERIFICATION)

LAB: Lab 6

SUPPLY SOURCE: SUPELCO LOT #LSS-828

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CAL DATE	MASS	RT	RESULT	%DIFF
CARBON TETRACHLORIDE	1/28/2004	50	8,5	54.0	
CHLOROETHANE	1/28/2004	50	3.3	51.3	2.6%
CHLOROFORM	1/28/2004	50	8.1	55.2	10,4%
1,1-DICHLORO ETHANE	1/28/2004	50	7.4	54.3	8.6%
1,2-DICHLORO ETHANE	1/28/2004	50		54.3	8.6%
1,1-DICHLORO ETHENE	1/28/2004	50	8.6 6.4	53.3	6.6%
CIS-1,2-DICHLORO ETHENE	1/28/2004	50	7.9	52.8	5.6%
TRANS-1,2-DICHLORO ETHENE	1/28/2004	50	7.1	54.7	9.4%
DICHLOROMETHANE	1/28/2004	50	6.8	53.4	6.8%
TETRACHLORO ETHENE	1/28/2004	50	10.8	52.9	5.8%
1,1,1,2-TETRACHLORO ETHANE	1/28/2004	50	11.7	52.9	5.8%
1,1,2,2-TETRACHLORO ETHANE	1/28/2004	50	100000	53.0	6.0%
1,1,1-TRICHLORO ETHANE	1/28/2004	50	12.7	49.0	2.0%
1,1,2-TRICHLORO ETHANE	1/28/2004	50	8.4 10.6	52.3	4.6%
TRICHLORO ETHENE	1/28/2004	50	9.2	51.9	3.8%
VINYL CHLORIDE	1/28/2004	50	2.7	53.1	6.2%
TRICHLOROFLUOROMETHANE (FR11)	1/28/2004	50	3.6	55.8	11.6%
DICHLORODIFLUOROMETHANE (FR12)	1/28/2004	50	2.3	53,2 50,7	6.4%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	1/28/2004	50	6.3	53.5	1.4% 7.0%
BENZENE	1/28/2004	50	8.7	54.0	0.000
ETHYLBENZENE	1/28/2004	50	11.7	54.8	9.6%
TOLUENE	1/28/2004	50	10.3	55.4	10.8%
m&p-XYLENES	1/28/2004	100	11.7	54.0	8.0%
-XYLENE	1/28/2004	50	12.2	109 54.3	9.0% 8.6%

ANALYSES PERFORMED IN CA DOHS MOBILE LABORATORY #1561

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS

HP Labs Project #GF040604-L6	SUPPLY SOURCE:	SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-857	NTROL (CLOSII	QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-857	OT #LSS-857	
LAB-6	INSTRUMENT: AG	SILENT 6850 G	C / 5973 MASS	AGILENT 6850 GC / 5973 MASS SPECTROMETER	R	5
	OPENIN	OPENING STANDARD		2ND SOURC	2ND SOURCE (1ug/L) CLOSING	SING
COMPOUND	MASS F	RESULT	%DIFF	MASS F	RESULT	%DIFF
CARBON TETRACHLORIDE	20	49.3	1.4%	20	51.8	3.6%
CHLOROFORM	20	52.8	5.6%	20	55.8	11.6%
1,1-DICHLORO ETHANE	20	56.3	12.6%	20	58.9	17.8%
1,2-DICHLORO ETHANE	20	52.4	4.8%	20	55.2	10.4%
1,1-DICHLORO ETHENE	20	53.4	6.8%	20	52.2	4.4%
CIS-1,2-DICHLORO ETHENE	20	49,4	1.2%	20	54.7	9.4%
TRANS-1,2-DICHLORO ETHENE	20	54.5	9.0%	20	56.7	13.4%
DICHLOROMETHANE	20	56.4	12.8%	20	59.8	19.6%
TETRACHLORO ETHENE	20	51.0	2.0%	20	55.7	11.4%
1,1,1,2-TETRACHLORO ETHANE	90	55.8	11.6%	20	59.4	18.8%
1,1,2,2-TETRACHLORO ETHANE	20	49.2	1.6%	20	52.8	5.6%
1,1,1-TRICHLORO ETHANE	20	47.6	4.8%	20	49.2	1.6%
1,1,2-TRICHLORO ETHANE	20	51.1	2.2%	20	54.9	9.8%
TRICHLORO ETHENE	20	45.9	8.2%	20	46.7	8.6%
VINYL CHLORIDE	20	59.8	19.6%	20	62.0	24.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	58.4	16.8%	20	60.2	20.4%
BENZENE	90	56.2	12.4%	20	59.9	19.8%
CHLOROBENZENE	20	52.0	4.0%	20	54.7	9.4%
ETHYLBENZENE	20	53.5	7.0%	20	55.8	11.6%
TOLUENE	20	48.4	1.2%	20	51.4	2.8%
m&p-XYLENES	100	112	12.0%	100	118	18.0%
o-XYLENE	20	53.8	7.6%	20	56.4	12.8%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #1561 ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS

COMPOUND MASS RESULT %DIFF AMSS RESULT CARBON TETRACHLORIDE 50 49.1 1.8% 50 CHLOROFORM 50 51.3 2.6% 50 1.1-DICHLORO ETHANE 50 51.1 2.2% 50 1.2-DICHLORO ETHENE 50 51.4 2.8% 50 1.1-DICHLORO ETHENE 50 52.4 4.8% 50 I.1-DICHLORO ETHENE 50 52.4 4.8% 50 I.1-DICHLORO ETHENE 50 52.4 4.8% 50 ITANIS-1,2-DICHLORO ETHENE 50 52.4 4.8% 50 III,1,2-TETRACHLORO ETHANE 50 52.4 4.8% 50 III,1,2-Z-TETRACHLORO ETHANE 50 52.4 4.8% 50 II,1,1-TRICHLORO ETHANE 50 51.4 2.8% 50 II,1,1-TRICHLORO ETHANE 50 50.4 50 50.4 50 III,1,1-TRICHLORO ETHANE 50 50.4 50 50 50 <th>OPENING STANDARD MASS RESULT 50 49.1 50 51.3</th> <th>%DIFF</th> <th>SAID SOURCE (4tm/l)</th> <th></th> <th></th>	OPENING STANDARD MASS RESULT 50 49.1 50 51.3	%DIFF	SAID SOURCE (4tm/l)		
RACHLORIDE MASS RESULT %DIFF RACHLORIDE 50 49.1 1.8% RM 50 49.1 1.8% RO ETHANE 50 51.3 2.6% RO ETHANE 50 51.4 2.2% RO ETHENE 50 51.4 2.8% RO ETHENE 50 52.4 4.8% RO ETHANE 50 52.8 11.6% RO ETHANE 50 52.8 11.6% ACHLORO ETHANE 50 52.9 5.8% ACHLORO ETHANE 50 52.9 5.8% ACHLORO ETHANE 50 50.9 5.8% ACHLORO ETHANE 50 50.9 5.8% ACHLORO ETHANE 50 50.9 5.4% CORO ETHANE 50 50.2 0.4% RIDE 50.8 50.8 19.6% RIDE 50.8 50.8 19.6%	RESULT 49.1 51.3 55.2	%DIFF 1.8%	100000000	(1ug/L) CLOSING	9
50 49.1 50 51.3 50 51.4 50 51.4 50 52.4 50 52.8 7.7 ANE 50 55.8 50 55.8 50 55.8 50 50.2 50 50.2 50 50.2 50 50.2		1.8%	MASS RE	RESULT	%DIFF
ETHANE ETHANE ETHANE ETHANE ETHENE BRO ETHENE HLORO ETHENE HLORO ETHANE HLORO ETHANE SO ETHANE SO ETHANE SO ETHANE SO ETHANE HENE SO ETHANE			50	49.6	0.8%
ETHANE ETHANE ETHANE ETHENE ETHENE RO ETHENE HLORO ETHENE HLORO ETHANE SO ET		2.6%	20	53.6	7.2%
50 51.1 50 51.4 50 52.4 50 52.8 ANE 50 52.9 ANE 50 55.6 50 47.7 50 50.2 50 50.2		10.4%	20	56.8	13.6%
50 51.4 50 52.4 50 52.8 50 55.8 ANE 50 55.8 50 47.7 50 50.2 50 47.7 50 59.8		2.2%	20	52.4	4.8%
ANE 50 52.4 50 53.7 50 55.8 ANE 50 55.8 50 55.6 50 51.4 50 50.2 50 47.7 50 50.2	50 51.4	2.8%	20	49.7	0.6%
ANE 50 53.7 ANE 50 55.8 ANE 50 55.8 ANE 50 55.4 50 51.4 50 50.2 50 50.2 50 50.2		4.8%	20	53.2	6.4%
ANE THENE CORO ETHANE CORO CORO CORO CORO CORO CORO CORO CORO		7.4%	20	52.8	5.6%
THENE 50 52.9 ORO ETHANE 50 55.6 ORO ETHANE 50 47.7 ETHANE 50 47.3 ENE 50 69.8		11.6%	20	57.1	14.2%
ORO ETHANE 50 55.6 ORO ETHANE 50 51.4 ETHANE 50 47.7 ETHANE 50 47.3 ENE 50 59.8	50 52.9	5.8%	20	54.4	8.8%
CRO ETHANE 50 51.4 ETHANE 50 47.7 ETHANE 50 50.2 ENE 50 47.3	50 55.6	11.2%	20	58.8	17.6%
ETHANE 50 47.7 ETHANE 50.2 ENE 50 47.3 50 59.8		2.8%	20	48.3	3.4%
ETHANE 50 50.2 ENE 50 47.3 50 59.8		4.6%	20	46.6	6.8%
ENE 50 47.3 50 59.8		0.4%	20	52.1	4.2%
. 20 29.8		5,4%	20	45.0	10.0%
		19.6%	20	62.3	24.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) 50 56.3 12.6%	20	12.6%	20	58.5	17.0%
BENZENE 50 55.5 11.0%	90	11.0%	20	58.1	16.2%
CHLOROBENZENE 53.0 6.0%		8.0%	20	53.9	7.8%
ETHYLBENZENE 55.1 10.2%		10.2%	20	56.2	12.4%
TOLUENE 50 50.9 1.8%	122	1.8%	20	49.8	0.4%
m&p-XYLENES 12.0%		12.0%	100	115	15.0%
0-XYLENE 50 54.5 9.0%		8.0%	20	56.1	12.2%

DATE: 04/07/04	CALIBRATION VERIFICATION	VERIFICATION	
HP Labs Project #GF040604-L6 Lab 6	SUPPLY SOUR INSTRUMENT:	SUPPLY SOURCE: SUPELCO LOT #LSS-856 INSTRUMENT: AGILENT 8850 GC / 5973 MASS SPECTROMETER	SS SPECTROMETER
		CONTINUING STANDARD	30
COMPOUND	MASS	RESPONSE	%DIFF
CARBON TETRACHLORIDE	20	51.0	2.0%
CHLOROFORM	20	55.4	10.8%
1,1-DICHLORO ETHANE	20	59.0	18.0%
1,2-DICHLORO ETHANE	20	54.4	8.8%
1,1-DICHLORO ETHENE	20	51.4	2.8%
CIS-1,2-DICHLORO ETHENE	20	51.8	3.6%
TRANS-1,2-DICHLORO ETHENE	20	55.5	11.0%
DICHLOROMETHANE	20	59.9	19.8%
TETRACHLORO ETHENE	20	54.3	8.6%
1,1,1,2-TETRACHLORO ETHANE	20	59.7	19.4%
1,1,2,2-TETRACHLORO ETHANE	20	52.6	5.2%
1,1,1-TRICHLORO ETHANE	20	49.2	1.6%
1,1,2-TRICHLORO ETHANE	20	56.3	12.6%
TRICHLORO ETHENE	20	46.1	7.8%
VINYL CHLORIDE	20	59.8	19.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	59.9	19.7%
BENZENE	20	59.9	19.8%
CHLOROBENZENE	20	53.0	6.0%
ETHYLBENZENE	20	55.3	10.6%
TOLUENE	20	50.7	1.4%
m&p-XYLENES	100	117	17.0%
O-XYLENE	20	55.0	10.0%

CERACHLORIDE OPENING STANDARD XDIFF AMASS RESULT AMASS AMASS RESULT <th>DATE: 04/08/04 HP Labs Project #GF040604-L6 LAB-6</th> <th>SUPPLY SOURCE: SUPPLY SOURCE: INSTRUMENT: AG</th> <th></th> <th>CALIBRATION VTROL (CLOSII C / 5973 MASS</th> <th>CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-856 QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-857 II ENT 6850 GC / 5973 MASS SPECTROMETER</th> <th>PELCO LOT # OT #LSS-857</th> <th>1.55-856</th>	DATE: 04/08/04 HP Labs Project #GF040604-L6 LAB-6	SUPPLY SOURCE: SUPPLY SOURCE: INSTRUMENT: AG		CALIBRATION VTROL (CLOSII C / 5973 MASS	CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-856 QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-857 II ENT 6850 GC / 5973 MASS SPECTROMETER	PELCO LOT # OT #LSS-857	1.55-856
ID MASS RESULT %DIFF MASS RESULT ETRACHLORIDE 50 48.6 2.8% 50 48.1 PRM 50 48.6 2.8% 50 48.1 PRO ETHANE 50 55.5 11.0% 50 53.1 PRO ETHANE 50 55.5 11.0% 50 54.7 PRO ETHANE 50 53.0 6.0% 50 54.7 PRO ETHANE 50 53.0 6.0% 50 53.0 PICLORO ETHENE 50 53.0 50.0% 50 53.0 PICLORO ETHENE 50 53.4 6.0% 50 53.0 PRACHLORO ETHANE 50 53.4 6.8% 50 53.4 PRACHLORO ETHANE 50 53.4 6.8% 50 53.6 HLORO ETHANE 50 47.5 50.% 50 53.6 HLORO ETHANE 50 50.0 50.0 50 50.0 ORIDE			VING STANDARD		2ND SOURCE	(1ug/L) CLO	SING
ETRACHLORIDE 50 48.6 2.8% 50 48.1 ORM JARA 50 51.9 53.1 53.1 DRA JAC ETHANE 50 55.5 11.0% 50 53.1 DRO ETHANE 50 55.0 11.0% 50 53.1 50 53.1 DRO ETHANE 50 53.0 6.0% 50 53.2 53.2 DICHLORO ETHENE 50 53.0 6.0% 50 53.2 ALLORO ETHENE 50 53.0 6.0% 50 53.2 AMETHANE 50 53.0 6.0% 50 53.4 50 53.6 CACHLORO ETHANE 50 53.3 12.6% 50 53.6 53.6 53.6 RACHLORO ETHANE 50 56.3 12.6% 50 53.6 53.6 HUORO ETHANE 50 50.0 50.0 50.0 50.0 53.0 53.0 HUORO ETHANE 50 50.0 50.0	COMPOUND	MASS	RESULT	%DIFF		ESULT	%DIFF
ORM 50 51.9 3.8% 50 53.1 OR OETHANE 50 55.5 11.0% 50 56.1 OR OETHANE 50 55.5 11.0% 50 56.1 DRO ETHENE 50 53.0 6.0% 50 51.5 DRO ETHENE 50 53.0 6.0% 50 54.7 DICHLORO ETHENE 50 53.4 6.0% 50 54.7 METHANE 50 53.4 6.8% 50 58.4 ORO ETHENE 50 53.4 6.8% 50 58.4 ORO ETHENE 50 53.4 6.8% 50 58.4 ORO ETHENE 50 56.3 12.6% 50 58.4 NACHLORO ETHANE 50 56.3 17.6% 50 58.6 HUORO ETHANE 50 46.3 7.4% 50 52.0 HUORO ETHANE 50 46.3 7.4% 50 57.9 HUORO ETHANE	CARBON TETRACHLORIDE	20	48.6	2.8%	90	48.1	3.8%
DRO ETHANE 50 55.5 11.0% 50 56.1 DRO ETHANE 50 50.5 11.0% 50 51.5 DRO ETHANE 50 50.5 1.0% 50 51.5 DICH LORO ETHENE 50 6.0% 50 53.0 53.0 CHLORO ETHENE 50 54.2 8.4% 50 54.7 METHANE 50 56.3 12.6% 50 54.7 ORO ETHENE 50 56.3 12.6% 50 54.7 NMETHANE 50 53.4 6.8% 50 58.4 CARCHLORO ETHANE 50 56.3 12.6% 50 51.6 RACHLORO ETHANE 50 47.5 50% 50.0 51.6 HLORO ETHANE 50 47.5 50% 50.0 50.0 O ETHENE 50 40.5 50 50.0 50.0 50.0 O ETHENE 50 50.4 45.0 50.0 57.9 57.9	CHLOROFORM	20	51.9	3.8%	20	53.1	6.2%
DRO ETHANE 50 50.5 1.0% 50 51.5 DRO ETHANE 50 53.0 6.0% 50 51.5 DRO ETHENE 50 53.0 6.0% 50 52.2 CHUCRO ETHENE 50 6.0% 50 53.0 52.2 CHUCRO ETHENE 50 56.3 12.6% 50 54.7 CRO ETHENE 50 56.3 12.6% 50 58.4 CRO ETHENE 50 56.3 12.6% 50 58.9 CRO ETHANE 50 50.3 12.6% 50 51.6 HLORO ETHANE 50 47.5 5.0% 50 51.6 HLORO ETHANE 50 47.5 5.0% 50 51.6 HLORO ETHANE 50 46.3 7.4% 50 52.3 HLORO ETHANE 50 46.3 7.4% 50 52.3 HLORO ETHANE 50 50.4 46.0 50.0% 50 57.9	1,1-DICHLORO ETHANE	20	55.5	11.0%	20	56.1	12.2%
ORO ETHENE 50 53.0 6.0% 50 52.2 CHLORO ETHENE 50 53.0 6.0% 50 52.2 CHLORO ETHENE 50 53.0 6.0% 50 53.0 CHLORO ETHENE 50 54.7 8.4% 50 53.4 ORO ETHENE 50 56.3 12.6% 50 53.6 CORD ETHANE 50 50.3 12.6% 50 53.6 RACHLORO ETHANE 50 50.3 10.6% 50 51.6 RACHLORO ETHANE 50 47.5 5.0% 50 47.5 HLORO ETHANE 50 47.5 5.0% 50 51.6 HLORO ETHANE 50 40.5 1.0% 50 52.0 HLORO ETHANE 50 40.5 1.0% 50 62.3 OR ETHENE 50 40.5 1.0% 50 62.3 OR ENTENE 50 50 50 57.9 ENZENE 50	1,2-DICHLORO ETHANE	20	50.5	1.0%	20	51.5	3.0%
CHLORO ETHENE 50 53.0 6.0% 50 53.0 CHLORO ETHENE 50 54.2 8.4% 50 53.0 METHANE 50 56.3 12.6% 50 54.7 METHANE 50 56.3 12.6% 50 53.4 CROR ETHENE 50 56.3 12.6% 50 58.3 CROR ETHANE 50 56.3 12.6% 50 58.9 CRACHLORO ETHANE 50 47.5 50 51.6 50 51.6 HLORO ETHANE 50 47.5 50% 50 52.0 50 52.0 HLORO ETHANE 50 49.5 1.0% 50 50 52.0 50 HLORO ETHANE 50 50 49.3 7.4% 50 57.9 HLORO ETHANE 50 55.3 11.0% 50 57.9 ENZENE 50 55.1 10.2% 50 57.9 ENZENE 50 55.1	1,1-DICHLORO ETHENE	20	53.0	6.0%	20	52.2	4,4%
DICHLORO ETHENE 50 54.2 8.4% 50 54.7 AMETHANE 50 56.3 12.6% 50 54.7 ORO ETHENE 50 56.3 12.6% 50 53.6 CAROLLORO ETHANE 50 56.3 12.6% 50 53.6 RACHLORO ETHANE 50 50.5 11.0% 50 51.6 HLORO ETHANE 50 47.5 50 51.6 HLORO ETHANE 50 47.5 50 51.6 HLORO ETHANE 50 44.3 7.4% 50 52.0 O ETHENE 50 50 46.0 50.0 51.6 50.0 CORIDE 50 50 50 57.9 50.0 57.9 HLOROTRIFLUOROETHANE (FR113) 50 56.2 57.9 57.9 ENZENE 50 55.7 7.4% 50 55.4 ENZENE 50 55.1 10.4 50 55.2 NES 113 <td>CIS-1,2-DICHLORO ETHENE</td> <td>90</td> <td>53.0</td> <td>8.0%</td> <td>20</td> <td>53.0</td> <td>8.0%</td>	CIS-1,2-DICHLORO ETHENE	90	53.0	8.0%	20	53.0	8.0%
MMETHANE 50 56.3 12.6% 50 58.4 CORO ETHENE 50 53.4 6.8% 50 53.6 CACHLORO ETHANE 50 56.3 12.6% 50 58.9 FRACHLORO ETHANE 50 50.5 1.0% 50 51.6 HLORO ETHANE 50 47.5 5.0% 50 47.5 HLORO ETHANE 50 46.3 7.4% 50 52.0 HLORO ETHANE 50 46.3 7.4% 50 52.0 OETHENE 50 46.3 7.4% 50 62.3 CARIDE 50 56.0 12.0% 50 57.9 HLOROTRIFLUORO ETHANE (FR113) 50 56.0 12.0% 50 57.9 ENZENE 50 55.4 50 57.9 57.9 LZENE 50 55.1 10.2% 50 55.4 NES 100 113 10.2% 50 55.2 50	TRANS-1,2-DICHLORO ETHENE	20	54.2	8.4%	20	54.7	9.4%
ORO ETHENE 50 53.4 6.8% 50 53.6 FRACHLORO ETHANE 50 56.3 12.6% 50 58.9 FRACHLORO ETHANE 50 50.5 1.0% 50 51.6 HLORO ETHANE 50 47.5 5.0% 50 47.5 HLORO ETHANE 50 46.3 7.4% 50 52.0 HLORO ETHANE 50 46.3 7.4% 50 52.0 HLORO ETHANE 50 46.3 7.4% 50 52.0 OETHENE 50 50 46.0 52.0 52.0 ORIDE 50 50 50 57.9 57.9 HLOROTRIFLUOROETHANE (FR113) 50 55.5 11.0% 50 57.9 ENZENE 50 55.5 11.0% 50 57.9 LZENE 50 55.1 10.2% 50 55.4 NES 100 113 10.2% 50 55.2 50 <	DICHLOROMETHANE	90	56.3	12.6%	20	58.4	16.8%
FACHLORO ETHANE 50 56.3 12.6% 50 58.9 FACHLORO ETHANE 50 50.5 1.0% 50 51.6 HLORO ETHANE 50 47.5 5.0% 50 47.5 HLORO ETHANE 50 49.5 1.0% 50 47.5 HLORO ETHANE 50 46.3 7.4% 50 45.0 HLORO ETHANE 50 46.3 7.4% 50 46.0 OETHENE 50 46.3 7.4% 50 62.3 HOROTRIFLUOROETHANE (FR113) 50 56.0 12.0% 50 57.9 HLOROTRIFLUOROETHANE (FR113) 50 55.5 11.0% 50 57.9 ENZENE 50 55.5 11.0% 50 57.9 ENZENE 50 55.1 10.2% 50 55.4 NES 100 114 114 114 NES 100 55.1 10.2% 50 55.2	TETRACHLORO ETHENE	20	53.4	6.8%	20	53.6	7.2%
RACHLORO ETHANE 50 50.5 1.0% 50 51.6 HLORO ETHANE 50 47.5 5.0% 50 47.5 HLORO ETHANE 50 49.5 1.0% 50 47.5 HLORO ETHANE 50 49.5 1.0% 50 45.0 HLORO ETHANE 50 46.3 7.4% 50 52.0 CORIDE 50 59.4 18.8% 50 62.3 HOROTRIFLUORO ETHANE (FR113) 50 56.0 11.0% 50 57.9 HOROTRIFLUORO ETHANE (FR113) 50 55.5 11.0% 50 57.9 ENZENE 50 55.5 11.0% 50 57.9 ENZENE 50 55.1 10.2% 50 55.4 NES 100 114 114 114 NES 100 55.1 10.2% 50 55.2	1,1,1,2-TETRACHLORO ETHANE	20	56.3	12.6%	20	58.9	17.8%
HLORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE O ETHENE O ENZEND ENZEND ENZEND ENZEND ENZEND ENZEND ENZEND 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114 100 114	1,1,2,2-TETRACHLORO ETHANE	20	50.5	1.0%	20	51.6	3.2%
HLORO ETHANE ORIDE ORIDE HLOROTRIFLUOROETHANE (FR113) ENZENE ENZENE NES HLOROTRIFLORO ETHANE (FR113) 50 69.4 18.8% 50 62.3 46.0 46.0 50 62.3 46.0 62.3 46.0 62.3 46.0 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3	1,1,1-TRICHLORO ETHANE	20	47.5	2.0%	20	47.5	5.0%
ORIDE	1,1,2-TRICHLORO ETHANE	20	49.5	1.0%	20	52.0	4.0%
CORIDE 50 59.4 18.8% 50 62.3 HLOROTRIFLUOROETHANE (FR113) 50 56.0 12.0% 50 57.9 ENZENE 50 55.5 11.0% 50 57.9 ENZENE 50 55.1 10.2% 50 55.4 IZENE 50 49.0 2.0% 50 49.4 NES 100 113 13.0% 100 114 NES 55.1 10.2% 50 55.2	TRICHLORO ETHENE	20	46.3	7.4%	20	46.0	8.0%
HLOROTRIFLUOROETHANE (FR113) 50 56.0 12.0% 50 57.9 57.9 50 55.5 11.0% 50 57.9 57.9 50 53.7 7.4% 50 54.2 50 55.1 10.2% 50 55.4 50.4 50 49.0 113 13.0% 100 114 50 55.2	VINYL CHLORIDE	20	59.4	18.8%	20	62.3	24.6%
ENZENE 50 55.5 11.0% 50 57.9 1 ENZENE 50 53.7 7.4% 50 54.2 IZENE 50 55.1 10.2% 50 55.4 1 50 49.0 2.0% 50 49.4 NES 100 113 13.0% 100 114 1 50 55.1 10.2% 50 55.2	1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	56.0	12.0%	20	57.9	15.8%
ENZENE 50 53.7 7.4% 50 54.2 IZENE 50 55.1 10.2% 50 55.4 1 50 49.0 2.0% 50 49.4 NES 100 113 13.0% 100 114 1 50 55.1 10.2% 50 55.2 1	BENZENE	90	55.5	11.0%	20	57.9	15.8%
LZENE 50 55.1 10.2% 50 55.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHLOROBENZENE	20	53.7	7.4%	20	54.2	8.4%
NES 50 49.0 2.0% 50 49.4 100 113 13.0% 100 114 1 50 55.1 10.2% 50 55.2 1	ETHYLBENZENE	20	55.1	10.2%	20	55.4	10.8%
NES 100 113 13.0% 100 114 1 1 50 55.2 1	TOLUENE	20	49.0	2.0%	20	49.4	1.2%
50 55.1 10.2% 50 55.2 1	m&p-XYLENES	100	113	13.0%	100	114	14.0%
	0-XYLENE	20	55.1	10.2%	20	55.2	10.4%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #1561
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

DATE: 04/09/04 HP Labs Project #GF040604-L6			S CALIBRATION NTROL (CLOSII	CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-856 QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-857	PELCO LOT #	LSS-856
LAB-6	INSTRUMENT: A	GILENT 6850 G	C / 5973 MASS	AGILENT 6850 GC / 5973 MASS SPECTROMETER	2	0.110
COMPOUND	MASS	SS RESULT	%DIFF	MASS R	MASS RESULT	SING %DIFF.
CARBON TETRACHLORIDE	20	47.8	4.4%	ı	48.7	2.6%
CHLOROFORM	90	51.7	3.4%	20	55.1	10.2%
1,1-DICHLORO ETHANE	20	54.2	8.4%	20	58.5	17.0%
1,2-DICHLORO ETHANE	20	49.4	1.2%	20	52.9	5.8%
1,1-DICHLORO ETHENE	20	51.4	2.8%	20	52.9	5.8%
CIS-1,2-DICHLORO ETHENE	20	52.6	5.2%	20	54.1	8.2%
TRANS-1,2-DICHLORO ETHENE	20	52.5	5.0%	20	55.1	10.2%
DICHLOROMETHANE	20	53.8	7.6%	20	58.9	17.8%
TETRACHLORO ETHENE	20	51.6	3.2%	20	55,5	11.0%
1,1,1,2-TETRACHLORO ETHANE	90	54.4	8.8%	20	59.4	18.8%
1,1,2,2-TETRACHLORO ETHANE	20	50.9	1.8%	20	52.9	5.8%
1,1,1-TRICHLORO ETHANE	20	48.0	4.0%	20	48.2	3.6%
1,1,2-TRICHLORO ETHANE	20	51.1	2.2%	20	55.1	10.2%
TRICHLORO ETHENE	20	47.1	5.8%	20	47.4	5.2%
VINYL CHLORIDE	90	59.2	18.4%	20	62.3	24.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	55.5	11.0%	20	56.8	13.6%
BENZENE	99	54.8	%9.6	20	58.8	17.6%
CHLOROBENZENE	20	52.0	4.0%	20	54.7	9.4%
ETHYLBENZENE	20	53.0	8.0%	20	56.7	13.4%
TOLUENE	20	50.6	1.2%	20	49.9	0.2%
m&p-XYLENES	100	110	10.0%	100	114	14.0%
0-XYLENE	20	52.4	4 8%	20	583	12 RBC

SOIL GAS INITIAL LCS STANDARD REPORT (CALIBRATION VERIFICATION)

LAB: Lab 6

SUPPLY SOURCE: SUPELCO LOT #LSS-836

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CAL DATE	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	3/1/2004	50	48.2	3.6%
CHLOROETHANE	3/1/2004	50	53.1	6.2%
CHLOROFORM	3/1/2004	50	49.5	1.0%
1,1-DICHLORO ETHANE	3/1/2004	50	49.3	1.4%
1,2-DICHLORO ETHANE	3/1/2004	50	49.5	1.0%
1,1-DICHLORO ETHENE	3/1/2004	50	51.5	3.0%
CIS-1,2-DICHLORO ETHENE	3/1/2004	50	50.3	0.6%
TRANS-1,2-DICHLORO ETHENE	3/1/2004	50	51.0	2.0%
DICHLOROMETHANE	3/1/2004	50	49.2	1.6%
TETRACHLORO ETHENE	3/1/2004	50	51.9	3.8%
1,1,1,2-TETRACHLORO ETHANE	3/1/2004	50	51.1	2.2%
1,1,2,2-TETRACHLORO ETHANE	3/1/2004	50	46.1	7.8%
1,1,1-TRICHLORO ETHANE	3/1/2004	50	48.0	4.0%
1,1,2-TRICHLORO ETHANE	3/1/2004	50	46.7	6.6%
TRICHLORO ETHENE	3/1/2004	50	48.4	3.2%
VINYL CHLORIDE	3/1/2004	50	52.0	4.0%
TRICHLOROFLUOROMETHANE (FR11)	3/1/2004	50	50.3	0.6%
DICHLORODIFLUOROMETHANE (FR12)	3/1/2004	50	49.0	2.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	3/1/2004	50	49.7	0.6%
BENZENE	3/1/2004	50	50.5	1.0%
ETHYLBENZENE	3/1/2004	50	50.9	1.8%
TOLUENE	3/1/2004	50	48.8	2.4%
m&p-XYLENES	3/1/2004	100	107	7.0%
o-XYLENE	3/1/2004	50	53.3	6.6%

ANALYSES PERFORMED IN CA DOHS MOBILE LABORATORY #1561

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS

	SUPPLY SOURCE:		CALIBRATION VTROL (CLOSII	CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-856 QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-857	PELCO LOT #1	.55-856
LAB-6	INSTRUMENT: AC	SILENT 6850 G	C / 5973 MASS	AGILENT 6850 GC / 5973 MASS SPECTROMETER	ER	
COMPOUND	MASS F	OPENING STANDARD SS RESULT	%DIFF	MASS F	ZND SOURCE (1ug/L) CLOSING MASS RESULT	SING %DIFF
CARBON TETRACHLORIDE	20	53.1	6.2%	50	44.0	12.0%
CHLOROETHANE	20	51.2	2.4%	20	52.6	5.2%
CHLOROFORM	20	50.3	0.6%	20	48.1	3.8%
1,1-DICHLORO ETHANE	20	50.2	0.4%	20	49.0	2.0%
1,2-DICHLORO ETHANE	20	50.5	1.0%	20	50.0	%0.0
1,1-DICHLORO ETHENE	20	49.5	1.0%	20	52.0	4.0%
CIS-1,2-DICHLORO ETHENE	20	50.0	0.0%	20	46.5	7.0%
TRANS-1,2-DICHLORO ETHENE	20	20.7	1.4%	90	50.8	1.6%
DICHLOROMETHANE	20	49.2	1.6%	20	53.4	6.8%
TETRACHLORO ETHENE	9	51.6	3.2%	20	48.5	3.0%
1,1,1,2-TETRACHLORO ETHANE	20	49.5	1.0%	20	41.9	16.2%
1,1,2,2-TETRACHLORO ETHANE	20	52.9	5.8%	20	52.4	4.8%
1,1,1-TRICHLORO ETHANE	20	53.0	%0.9	20	45.9	8.2%
1,1,2-TRICHLORO ETHANE	90	49.0	2.0%	20	48.7	2.6%
TRICHLORO ETHENE	20	49.3	1.4%	20	46.9	6.2%
VINYL CHLORIDE	20	49.7	99.0	20	51.9	3.8%
TRICHLOROFLUOROMETHANE (FR11)	20	50.1	0.2%	20	51.6	3.2%
DICHLORODIFLUOROMETHANE (FR12)	20	51.4	2.8%	20	47.6	4.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	90	48.8	2.4%	20	49.3	1.4%
BENZENE	20	48.3	3.4%	20	46.8	6.4%
CHLOROBENZENE	20	49.8	0.4%	20	47.8	4.4%
ETHYLBENZENE	20	49.4	1.2%	20	46.8	6.4%
TOLUENE	20	49.7	0.6%	20	48.2	3.6%
m&p-XYLENES	100	97.3	2.7%	100	92.9	7.1%
o-XYLENE	20	48.2	3.6%	20	45.4	9.2%

DATE: 07/14/04	CALIBRATION VERIFICATION	ICATION	
HP Labs Project #GF071404-L6 Lab 6	SUPPLY SOURCE: S INSTRUMENT: AGII	SUPPLY SOURCE: SUPELCO LOT #LSS-886 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER	SS SPECTROMETER
		CONTINUING STANDARD	30
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	90	44.9	10.2%
CHLOROETHANE	20	51.9	3.8%
CHLOROFORM	20	49.7	0.6%
1,1-DICHLORO ETHANE	20	49.6	0.8%
1,2-DICHLORO ETHANE	20	52.4	4.8%
1,1-DICHLORO ETHENE	20	53.4	6.8%
CIS-1,2-DICHLORO ETHENE	20	49.2	1.6%
TRANS-1,2-DICHLORO ETHENE	20	53.9	7.8%
DICHLOROMETHANE	20	53.6	7.2%
TETRACHLORO ETHENE	50	49.9	0.2%
1,1,1,2-TETRACHLORO ETHANE	20	46.4	7.2%
1,1,2,2-TETRACHLORO ETHANE	20	54.2	8.4%
1,1,1-TRICHLORO ETHANE	20	47.2	5.6%
1,1,2-TRICHLORO ETHANE	20	51.9	3.8%
TRICHLORO ETHENE	20	47.6	4.8%
VINYL CHLORIDE	20	52.7	5.4%
TRICHLOROFLUOROMETHANE (FR11)	20	53,6	7.2%
DICHLORODIFLUOROMETHANE (FR12)	20	48.2	3.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	90	50.3	0.6%
BENZENE	20	48.6	2.8%
CHLOROBENZENE	20	49.9	0.2%
ETHYLBENZENE	20	49,4	1.2%
TOLUENE	20	49.3	1.4%
m&p-XYLENES	100	98.7	1.3%
O-XVI FNF	20	49.1	1 80%



SOIL GAS INITIAL LCS STANDARD REPORT (CALIBRATION VERIFICATION)

LAB: Lab 6

SUPPLY SOURCE: SUPELCO LOT #LSS-915

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CAL DATE	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	9/30/2004	50	54.5	-9.0%
CHLOROETHANE	9/30/2004	50	47.6	4.8%
CHLOROFORM	9/30/2004	50	50.0	0.0%
1,1-DICHLORO ETHANE	9/30/2004	50	49.7	0.6%
1,2-DICHLORO ETHANE	9/30/2004	50	51.4	-2.8%
1,1-DICHLORO ETHENE	9/30/2004	50	48.9	2.2%
CIS-1,2-DICHLORO ETHENE	9/30/2004	50	52.9	-5.8%
TRANS-1,2-DICHLORO ETHENE	9/30/2004	50	49.1	1.8%
DICHLOROMETHANE	9/30/2004	50	46.7	6.6%
TETRACHLORO ETHENE	9/30/2004	50	47.8	4.4%
1,1,1,2-TETRACHLORO ETHANE	9/30/2004	50	48.7	2.6%
1,1,2,2-TETRACHLORO ETHANE	9/30/2004	50	52.3	-4.6%
1,1,1-TRICHLORO ETHANE	9/30/2004	50	51.7	-3.4%
1,1,2-TRICHLORO ETHANE	9/30/2004	50	51.2	-2.4%
TRICHLORO ETHENE	9/30/2004	50	50.5	-1.0%
VINYL CHLORIDE	9/30/2004	50	47.0	6.0%
TRICHLOROFLUOROMETHANE (FR11)	9/30/2004	50	47.3	5.4%
DICHLORODIFLUOROMETHANE (FR12)	9/30/2004	50	49.7	0.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	9/30/2004	50	45.0	10.0%
BENZENE	9/30/2004	50	51.2	-2.4%
ETHYLBENZENE	9/30/2004	50	51.0	-2.0%
TOLUENE	9/30/2004	50	50.5	-1.0%
m&p-XYLENES	9/30/2004	100	103.9	-3.9%
o-XYLENE	9/30/2004	50	51.8	-3.6%

ANALYSES PERFORMED IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS



DE	NOTED MENT	ACH ENT 8850 CO 15079 MACO COCOTOO MACHENIA	INSTRUMENT: ACII ENT 8850 CO (6070 MASS SECONDOMINE)	THEODEN	-	
CARBON TETRACHLORIDE CHLOROETHANE CHLOROFORM	155	OPENING STANDARD	COMM CIEC IN	(Tua/l)	Tugili 2ND SOURCE	
CARBON TETRACHLORIDE CHLOROETHANE CHLOROFORM	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CHLOROFORM	90	46.0	8.0%	-	0.76	24.0%
CHLOROFORM	20	49.3	1.4%	-	1.17	17.0%
4.4.000 11010	20	48.8	2.4%	**	66.0	1.0%
1,1-DICHLORO ETHANE	. 20	46.7	6.6%	-	0.96	4.0%
1,2-DICHLORO ETHANE	20	49.7	%9'0		1.00	%000
1,1-DICHLORO ETHENE	20	48.0	4.0%	-	1.12	12.0%
CIS-1,2-DICHLORO ETHENE	20	52.6	5.2%		1.09	%0 o
TRANS-1,2-DICHLORO ETHENE	20	48.4	3.2%	-	1.12	12.0%
DICHLOROMETHANE	20	49.7	0.6%	-	1.18	18.0%
TETRACHLORO ETHENE	20	48.4	3.2%	-	1.07	7.0%
1,1,1,2-TETRACHLORO ETHANE	20	46.0	8.0%	1	0.71	29.0%
1,1,2,2-TETRACHLORO ETHANE	20	56.4	12.8%	5	1.02	2.0%
1,1,1-TRICHLORO ETHANE	20	46.7	6.6%	-	0.87	13.0%
1,1,2-TRICHLORO ETHANE	20	55.7	11.4%	-	1.01	1.0%
TRICHLORO ETHENE	20	49.2	1.6%	-	1.03	3.0%
VINYL CHLORIDE	20	48.9	2.2%	-	1.15	15.0%
TRICHLOROFLUOROMETHANE (FR11)	20	49.6	0.8%	-	1,23	23.0%
DICHLORODIFLUOROMETHANE (FR12)	20	55.7	11.4%	-	1.24	24.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	48.3	3.4%	-	1.13	13.0%
BENZENE	20	51.2	2.4%	-	1.10	10.0%
CHLOROBENZENE	20	48.4	3.2%	-	1.02	2.0%
ETHYLBENZENE	20	51.4	2.8%	-	1.08	8.0%
TOLUENE	20	51.4	2.8%	-	1.14	14.0%
m&p-XYLENES	100	106	80.9	7	2.24	12.0%
o-XYLENE	20	53.2	6.4%	-	1.10	10.0%



HP Labs Project #GF102504-L6 LAB-6	SUPPLY SOURCE: INSTRUMENT: AG	QUALITY COI	SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-915 INSTRUMENT: AGILENT 8850 GC / 5973 MASS SPECTROMETER	G) SUPELCO L	QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-915 LENT 8850 GC / 5973 MASS SPECTROMETER	2
	OPENIN	OPENING STANDARD		(1ug/l)	(1ug/l) 2ND SOURCE	
COMPOUND	MASS F	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	42.8	14.4%	20	40.1	19.8%
CHLOROETHANE	20	54.4	8.8%	20	58.3	16.6%
CHLOROFORM	20	47.1	5.7%	20	47.7	4.6%
1,1-DICHLORO ETHANE	20	46.4	7.2%	20	48.7	2.6%
1,2-DICHLORO ETHANE	20	46.5	7.0%	20	49.5	1.0%
1,1-DICHLORO ETHENE	20	52.4	4.8%	20	59.0	18.0%
CIS-1,2-DICHLORO ETHENE	20	51.9	3.8%	20	53.8	7.6%
TRANS-1,2-DICHLORO ETHENE	20	51.3	2.6%	20	58.2	16.4%
DICHLOROMETHANE	20	49.9	0.2%	20	67.0	14.0%
TETRACHLORO ETHENE	20	51.6	3.2%	20	53.6	7.2%
1,1,1,2-TETRACHLORO ETHANE	20	43.8	12.4%	20	42.2	15.6%
1,1,2,2-TETRACHLORO ETHANE	20	53.4	6.8%	20	48.0	4.0%
1,1,1-TRICHLORO ETHANE	20	44.8	10.4%	20	43.1	13.8%
1,1,2-TRICHLORO ETHANE	20	49.2	1.6%	20	49,6	0.8%
TRICHLORO ETHENE	20	48.8	2.4%	20	51.3	2.6%
VINYL CHLORIDE	20	51.4	2.8%	20	58.6	17.2%
TRICHLOROFLUOROMETHANE (FR11)	20	52.4	4.8%	20	58.6	17.2%
DICHLORODIFLUOROMETHANE (FR12)	20	57.4	14.8%	20	58.0	16.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	49.5	1.0%	20	57.2	14.4%
BENZENE	20	51.3	2.6%	20	53.1	6.2%
CHLOROBENZENE	20	49.3	1.4%	20	51.6	3.2%
ETHYLBENZENE	20	51.8	3.6%	20	54.8	9.6%
TOLUENE	20	50.1	0.2%	20	51.0	2.0%
m&p-XYLENES	100	107	7.0%	100	110	9.5%
0-XYLENE	20	52.9	5.8%	20	53.9	7.8%

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS



HP Labs Project #GF102504-L6	SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-915	QUALITY CON	CE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-915	(G) SUPELCOL	OT #LSS-915	
		OPENING STANDARD		(1ua/l)	(1ua/l) 2ND SOURCE	
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	43.9	12.2%	20	40.8	18.4%
CHLOROETHANE	20	57.7	15.4%	20	58.5	17.0%
CHLOROFORM	20	47.1	5.8%	20	50.2	0.4%
1,1-DICHLORO ETHANE	20	46.6	6.8%	20	49.9	0.2%
1,2-DICHLORO ETHANE	20	46.1	7.8%	20	51.5	3.0%
1,1-DICHLORO ETHENE	20	56.2	12.4%	20	57.7	15.4%
CIS-1,2-DICHLORO ETHENE	20	53.0	6.0%	20	56.0	12.0%
TRANS-1,2-DICHLORO ETHENE	20	55.5	11.0%	20	58.0	16.0%
DICHLOROMETHANE	20	55.7	11.4%	20	59.3	18.6%
TETRACHLORO ETHENE	20	51.5	3.0%	20	54.4	8.8%
1.1.1.2-TETRACHLORO ETHANE	20	45.7	8.6%	20	40.7	18.6%
1,1,2,2-TETRACHLORO ETHANE	20	48.3	3.4%	20	50.8	1.6%
1,1,1-TRICHLORO ETHANE	20	45.7	8.6%	20	46.3	7.4%
1,1,2-TRICHLORO ETHANE	20	48.7	2.6%	20	53.3	6.6%
TRICHLORO ETHENE	90	50.8	1.6%	50	52.2	4.4%
VINYL CHLORIDE	20	57.2	14,4%	20	59.1	18.2%
TRICHLOROFLUOROMETHANE (FR11)	20	59.0	18.0%	20	59.9	19.8%
DICHLORODIFLUOROMETHANE (FR12)	20	59.2	18.4%	20	59.5	19.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	56.5	13.0%	20	59.8	19.6%
BENZENE	20	51.9	3.8%	20	54.4	8.8%
CHLOROBENZENE	90	50.9	1.8%	20	52.7	5.4%
ETHYLBENZENE	20	53.0	8.0%	20	53.5	7.0%
TOLUENE	20	50.9	1.8%	20	52.8	5.6%
m&p-XYLENES	100	110	10.0%	100	109	9.0%
o-XYLENE 50	20	54.8	89.6	20	54.1	8.2%



ACHLORIDE VE	CA Transfer				C 25-00-12	
COMPOUND CARBON TETRACHLORIDE CHLOROETHANE	INSTRUMENT: AC	SILENT 6850 GC	3 / 5973 MASS	INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER	ER.	
COMPOUND CARBON TETRACHLORIDE CHLOROETHANE	OPENIN	OPENING STANDARD	50000	(1ug/l)	(1ug/l) 2ND SOURCE	
CARBON TETRACHLORIDE CHLOROETHANE	MASS F	RESULT	%DIFF	MASS F	RESULT	%DIFF
CHLOROETHANE	20	47.2	5.6%	20	40.1	19.8%
	20	55.9	11.8%	20	57.3	14.6%
CHLOROPORM	20	49.9	0.3%	20	52.2	4.4%
1,1-DICHLORO ETHANE	20	48.7	2.6%	20	51.8	3.6%
1,2-DICHLORO ETHANE	20	49.6	0.8%	20	55.0	10.0%
1,1-DICHLORO ETHENE	20	55.7	11.4%	20	59.0	18.0%
CIS-1,2-DICHLORO ETHENE	20	53.6	7.2%	20	58.0	16.0%
TRANS-1,2-DICHLORO ETHENE	90	55.5	11.0%	20	59.9	19.8%
DICHLOROMETHANE	20	56.9	13,8%	20	59.3	18.6%
TETRACHLORO ETHENE	20	53.0	6.0%	20	55.7	11.4%
1,1,1,2-TETRACHLORO ETHANE	20	49.6	0.8%	20	41.8	16.4%
1,1,2,2-TETRACHLORO ETHANE	20	55.0	10.0%	20	50.8	1.6%
1,1,1-TRICHLORO ETHANE	20	47.7	4.6%	20	45.8	8.4%
1,1,2-TRICHLORO ETHANE	20	54.9	9.8%	20	59.7	19.4%
TRICHLORO ETHENE	20	50.9	1.8%	20	55.7	11.4%
VINYL CHLORIDE	20	57.0	14.0%	50	59.5	19.0%
TRICHLOROFLUOROMETHANE (FR11)	20	58.6	17.2%	50	58.8	17.6%
DICHLORODIFLUOROMETHANE (FR12)	20	59.3	18.6%	20	60.7	21.4%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	53.6	7.2%	50	58.7	17.4%
BENZENE	20	53.4	6.8%	20	92.0	14.0%
CHLOROBENZENE	20	52.0	4.0%	20	54.3	8.6%
ETHYLBENZENE	20	53.7	7.4%	20	28.7	13.4%
TOLUENE	20	52.8	5.6%	20	54.8	9.6%
m&p-XYLENES	100	109	9.0%	100	114	14.0%
0-XYLENE	20	54.1	8.2%	20	57.3	14.6%



DATE: 10/29/04	SUPPLY SOURCE:		CALIBRATION	(OPENING) SL	CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-917	\$5-917
HP Labs Project #GF102504-L6 LAB-6	SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-915 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER	SE: QUALITY CONTROL (CLOSING) SUPELCO LO AGILENT 6850 GC / 5973 MASS SPECTROMETER	TROL (CLOSIN	IG) SUPELCO	LOT #LSS-915	
	150	OPENING STANDARD		(1ug/l)	1ua/l) 2ND SOURCE	
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	44.9	10.2%	-	0.76	24.0%
CHLOROETHANE	90	58.0	16.0%		1.30	30.0%
CHLOROFORM	20	48.0	4.0%	-	0.98	2.0%
1,1-DICHLORO ETHANE	- 99	48.0	4.0%	-	0.98	2.0%
1,2-DICHLORO ETHANE	20	47.9	4.2%	-	1.02	2.0%
1,1-DICHLORO ETHENE	20	57.0	14.0%	-	1,25	25.0%
CIS-1,2-DICHLORO ETHENE	20	52.9	5.8%	•	1.06	6.0%
TRANS-1,2-DICHLORO ETHENE	20	56.7	13.4%	-	1.30	30.0%
DICHLOROMETHANE	90	55.8	11.6%	-	1.33	33.0%
TETRACHLORO ETHENE	20	52.5	5.0%	-	1.06	6.0%
1,1,1,2-TETRACHLORO ETHANE	20	47.0	6.0%		0.72	28.0%
1,1,2,2-TETRACHLORO ETHANE	20	50.4	0.8%	-	1.01	1.0%
1,1,1-TRICHLORO ETHANE	20	46.0	8.0%	-	0.82	18.0%
1,1,2-TRICHLORO ETHANE	20	50.6	1.2%	•	1.04	4.0%
TRICHLORO ETHENE	20	49.5	1.0%	,	1.05	5.0%
VINYL CHLORIDE	20	56.3	12.6%	-	1,30	30.0%
TRICHLOROFLUOROMETHANE (FR11)	20	59.1	18.2%		1.33	33.0%
DICHLORODIFLUOROMETHANE (FR12)	20	60.0	20.0%	•	1,36	36.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	57.3	.14.6%	-	122	22.0%
BENZENE	90	51.9	3.8%	-	1.07	7.0%
CHLOROBENZENE	20	50.5	1.0%	7	1.01	1.0%
ETHYLBENZENE	20	53.0	8.0%	-	1.05	9.0%
TOLUENE	20	51.6	3.2%	-	1.15	15.0%
m&p-XYLENES	100	110	10.0%	2	2.18	9.0%
0-XYLENE	20	54.0	8.0%	-	1.10	10.0%



COMPOUND CARBON TETRACHLORIDE CHLOROFTHANE CHLOROFORM 1,1-DICHLORO ETHENE 1,1-DICHLORO ETHENE CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE TETRACHLORO ET	AB	100				
INE INE	OPENING	LENT 6850 GC	1 5973 MASS	AGILENT 6850 GC / 5973 MASS SPECTROMETER	.O. #LSS-815	55
INE INE		OPENING STANDARD		SND	2ND SOURCE	
INE INE	MASS RE	RESULT	%DIFF	MASS R	RESULT	%DIFF
ENE ENE	20	47.8	4.4%	50	41.4	17.2%
NE NE	20	61.5	23.0%	20	67.4	34 8%
NE NE	20	47.8	4.4%	20	49.5	1 00%
INE SALE	- 20	47.7	4.6%	20	49.1	2000
ENE	50	47.3	5.4%	20	48.9	2.2%
INE NE	20	48.9	2.2%	20	49.7	0.6%
HENE	20	53.7	7.4%	20	54.5	9.0%
TUANE	20	54.6	9.2%	20	65.6	31.2%
BN SH	20	58.7	13.4%	20	63.8	27.6%
	20	54.3	8.6%	20	54.9	98%
	20	50.5	1.0%	20	42.9	14 2%
TANE	20	50.9	1.8%	20	48.5	3.0%
	20	46.7	6.6%	20	45.1	9.8%
TANE	20	51.3	2.6%	20	54.1	8 2%
ENE	20	50.3	0.6%	20	51.2	2.4%
	20	58.8	17.6%	20	62.8	25.6%
	20	8.09	21.6%	20	72.4	44.8%
	20	62.1	24.2%	20	9.09	21 2%
HLOROTRIFLUOROETHANE (FR113)	20	50.1	0.2%	50	8'09	1.6%
	20	52.4	4.8%	20	53.5	7.0%
ų.	20	51.6	3.2%	20	52.8	5.6%
AZENE	20	55.7	11.4%	20	55.0	10.0%
	20	57.1	14.2%	20	53.4	6.8%
NES -	100	115	15.0%	100	115.0	15.0%
0-AYLENE 50	20	57.2	14.4%	20	55.7	11.4%



COMPOUND MASS RESULT %DIFF AMSS RESULT AMSS AMSS<	DATE: 11/02/04 HP Labs Project #GF102504-L6 LAB-6	SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT # SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-915 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER	E: CONTINUING CALIBRATION E: QUALITY CONTROL (CLOSII AGILENT 6850 GC / 5973 MASS	CALIBRATION TROL (CLOSIN 2 / 5973 MASS	I (OPENING) SUPE NG) SUPELCO LO' SPECTROMETER	CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-917 QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-915 LENT 6850 GC / 5973 MASS SPECTROMETER	SS-917
NASS RESULT WASS RESULT		OPENI	NG STANDARD		2N	DSOURCE	
Fire Machic Processes	COMPOUND	MASS	RESULT	%DIFF		RESULT	%DIFF
THANE 50 53.8 7.6% 50 54.2 CORO ETHANE 50 54.5 9.0% 50 54.2 ORO ETHANE 50 47.0 6.0% 50 54.1 ORO ETHANE 50 47.0 6.0% 50 54.1 ORO ETHENE 50 54.0 6.0% 50 54.3 CHLORO ETHENE 50 54.0 8.0% 50 54.3 CHLORO ETHENE 50 54.0 8.0% 50 54.3 CHLORO ETHANE 50 54.0 8.0% 50 54.3 LORO ETHANE 50 54.4 50 52.8 50 52.8 ILORO ETHANE 50 54.4 50 54.3 50 52.8 ILORO ETHANE 50 52.6 48.4 3.2% 50 51.5 HLORO ETHANE 50 52.8 50 40.0 50 51.5 ORILORO ETHANE 50 52.0 40.0 <	CARBON TETRACHLORIDE	90	53.0	8.0%	L	44.3	11 40%
ORD SA-5 9.0% 50 54.1 ORO ETHANE 50 48.3 3.4% 50 54.1 ORO ETHANE 50 48.3 3.4% 50 54.1 ORO ETHANE 50 48.3 3.4% 50 54.1 ORO ETHENE 50 53.0 6.0% 50 54.4 CHLORO ETHENE 50 54.0 8.0% 50 54.4 CHLORO ETHENE 50 52.7 5.4% 50 54.4 LORO ETHANE 50 53.2 6.4% 50 52.8 TRACHLORO ETHANE 50 48.3 3.4% 50 52.8 TRACHLORO ETHANE 50 46.4 7.2% 50 52.8 TRACHLORO ETHANE 50 46.4 7.2% 50 47.3 HLORO ETHANE 50 46.4 7.2% 50 47.3 HLORO ETHANE 50 52.8 50 51.5 OFLILORO ETHANE 50 5	CHLOROETHANE	20	53.8	7.6%	50	54.2	X 400
ORO ETHANE 50 48.3 3.4% 50 48.3 ORO ETHANE 50 48.3 3.4% 50 48.3 ORO ETHANE 50 47.0 6.0% 50 57.3 48.3 CHLORO ETHENE 50 53.0 6.0% 50 57.3 1 CHLORO ETHENE 50 52.7 5.4% 50 57.3 1 CHLORO ETHENE 50 52.7 5.4% 50 57.3 1 CHLORO ETHENE 50 51.4 2.8% 50 52.8 1 LORO ETHANE 50 52.2 52.8 50 52.8 51.1 HLORO ETHANE 50 52.8 50 41.6 41.6 41.6 HLORO ETHANE 50 52.8 52.8 50 51.1 50 51.1 HLORO ETHANE 50 52.8 50 52.8 50 51.1 ALORO ETHANE 50 52.8 50 52.8 50<	CHLOROFORM	20	54.5	%0.6	20	24.4	0.00
ORO ETHANE 50 47.0 6.0% 50 51.8 ORO ETHANE 50 67.0 6.0% 50 51.8 CHLORO ETHENE 50 53.0 6.0% 50 57.3 CHLORO ETHENE 50 54.0 8.0% 50 57.3 CHLORO ETHENE 50 52.7 5.4% 50 58.3 LORO ETHENE 50 51.4 2.8% 50 52.8 LORO ETHANE 50 48.3 3.4% 50 58.3 TRACHLORO ETHANE 50 46.4 7.2% 50 41.6 TRACHLORO ETHANE 50 46.4 7.2% 50 51.1 HLORO ETHANE 50 48.4 7.2% 50 47.3 HLORO ETHANE 50 48.4 7.2% 50 51.1 HLORO ETHANE 50 52.6 4.0% 50 51.5 CARIDE 50 52.8 50 51.2 50 52.8	1,1-DICHLORO ETHANE	- 20	48.3	3.4%	8 6	- 0	270
ORO ETHENE 50 53.0 6.0% 50 57.3 CHLORO ETHENE 50 54.0 8.0% 50 57.3 CHLORO ETHENE 50 54.0 8.0% 50 57.3 CHLORO ETHENE 50 52.7 5.4% 50 58.3 LORO ETHENE 50 48.4 2.8% 50 52.8 TRACHLORO ETHANE 50 46.4 7.2% 50 52.8 TRACHLORO ETHANE 50 46.4 7.2% 50 51.1 HLORO ETHANE 50 46.4 7.2% 50 51.1 HLORO ETHANE 50 46.4 7.2% 50 51.1 HLORO ETHANE 50 46.4 7.2% 50 51.1 AHLORO ETHANE 50 48.4 3.2% 50 51.1 CORIDE 50 50 51.2 50 52.8 50 52.8 CORIDE 50 50 50 50 51.7	1,2-DICHLORO ETHANE	20	47.0	80%	20	40°	6,40
CHLORO ETHENE CHLORO ETHENE 50 54.0 8.0% 50 54.4 CHORO ETHENE 50 52.7 5.4% 50 56.5 CHORO ETHENE 50 52.7 5.4% 50 56.5 CHORO ETHANE FRACHLORO FRACHLORO	1,1-DICHLORO ETHENE	20	53.0	6.0%	20	67.9	0.0%
2-DICHLORO ETHENE 50 52.7 5.3% 50. 56.5 DMETHANE CLORO ETHENE TRACHLORO ETHANE TRACHLORO TRACHLORO TRACHLORO TRACHLORO TRACHLORO TRACHLORO TRACHL	CIS-1,2-DICHLORO ETHENE	20	54.0	80%	8 6	2.10	6.0%
OMETHANE 50 51.4 2.7% 50 58.3 LORO ETHENE 50 51.4 2.8% 50 58.3 LORO ETHENE 50 48.3 3.4% 50 52.8 TRACHLORO ETHANE 50 46.4 7.2% 50 41.6 HLORO ETHANE 50 48.4 3.2% 50 47.3 HLORO ETHANE 50 48.4 3.2% 50 47.3 N-LORO ETHANE 50 52.6 4.0% 50 51.1 NORIDE 50 52.0 4.0% 50 51.5 LORIDE 50 48.2 3.6% 50 51.5 LORIDE 50 6.7 2.14% 50 60.0 NORIDE 50 50 48.6 50 60.0 53.6 NORIDE 50 50 50 60.0 53.6 50 60.0 54.7 NORDELLOROMETHANE (FR113) 50 53.2 6.4% 50 <td>TRANS-1,2-DICHLORO ETHENE</td> <td>05</td> <td>50.7</td> <td>200</td> <td>9 5</td> <td>4.40</td> <td>0.0%</td>	TRANS-1,2-DICHLORO ETHENE	05	50.7	200	9 5	4.40	0.0%
LORO ETHENE 50 58.3 TRACHLORO ETHANE 50 58.3 TRACHLORO ETHANE 50 48.3 3.4% 50 52.8 TRACHLORO ETHANE 50 48.3 3.4% 50 52.8 HLORO ETHANE 50 46.4 7.2% 50 41.6 HLORO ETHANE 50 52.6 52.6 52.7 50 47.3 HLORO ETHANE 50 52.6 48.4 3.2% 50 47.3 ROSI ETHENE 50 52.0 48.4 3.2% 50 47.3 CORIDE 50 52.0 48.2 3.6% 50 51.5 CORIDE 50 50.7 21.4% 50 60.0 51.5 CORIDE 50 50.7 51.4% 50 53.2 50.0 50.0 CORIDE 50 50.7 51.7 50 50.0 50.0 50.0 CENIS 50 52.3 50.0 50.0	DICHLOROMETHANE	0 9	1.70	64.0	00	26,5	13.0%
TRACHLORO ETHANE 50 53.2 6.4% 50 52.8 TRACHLORO ETHANE 50 48.3 3.4% 50 41.6 50 48.3 3.4% 50 41.6 50 62.6 52.8 50.1 10.00 107 7.0% 50 51.1 50 ENZENE 50 6.4% 50 51.1 50 48.4 7.2% 50 51.1 50 6.0.7 2.1.4% 50 60.0 50.0 53.2 6.4% 50 53.2 50.0 6.0.7 2.1.4% 50 60.0 50.0 53.2 6.4% 50 53.2 50 60.0 53.2 6.4% 50 54.7 50 53.2 6.4% 50 51.2 50 53.5 7.0% 50 51.2 50 62.8 5.6% 50 52.3	TETRACIII ODO ETHENE	90	4.10	2.8%	20	58.3	16.6%
TRACHLORO ETHANE TRACHLORO TRACHLORO ETHANE TRACHLORO ETHANE TRACHLORO ETHANE TRACHLORO ETH	14 10 TITLING CINENE	90	53.2	6.4%	20	52.8	5.6%
HUORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE So 52.6 52.8 50 47.3 So 52.0 4.0% 50 53.1 So 52.0 4.0% 50 60.0 So 52.0 4.0% 50 60.0 So 52.1 4% 50 58.6 HLORO TRIFLUORO ETHANE (FR113) 50 53.2 So 53.7 7.4% 50 54.7 ENZENE So 53.5 7.0% 50 51.2 So 53.5 7.0% 50 51.2 So 52.8 5.6% 50 52.3 NES	1,1,1,2-TETRACHLORO ETHANE	20	48.3	3.4%	20	41.6	16.8%
HLORO ETHANE HLORO ETHANE HLORO ETHANE HLORO ETHANE SO 52.6 48.4 3.2% 50 47.3 SO ETHENE LORIDE SOFLUOROMETHANE (FR11) SO 50.7 21.4% 50 60.0 SOFLUOROMETHANE (FR12) SO 59.5 19.0% 50 58.6 14.0ROTRIFLUOROETHANE (FR113) SO 53.7 7.4% 50 54.7 ENZENE SOFLOROMETHANE (FR13) SO 53.7 7.4% 50 54.7 SO 53.5 7.0% 50 51.2 SOFLOROMETHANE (FR13) SO 53.7 7.4% 50 54.7 SOFLOROMETHANE (FR13) SO	1,1,4,2-1EIRACHLORO EIHANE	20	46.4	7.2%	20	51.1	2.2%
NES THENE 50 48.4 3.2% 50 53.1 50 62.0 4.0% 50 51.5 50 60.7 21.4% 50 60.0 50 60.7 21.4% 50 60.0 50 19.0% 50 60.0 50 59.5 19.0% 50 60.0 50 53.7 7.4% 50 54.7 ENZENE NES HLOROTRIFLUOROETHANE (FR113) 50 53.2 NES NES HLOROTRIFLUOROETHANE (FR113) 50 53.2 100 107 7.0% 50 51.2 100 107 7.0% 50 52.3 100 105 52.8 100 107 7.0% 50 52.3	1,1,1-1 RICHLORO ETHANE	20	52.6	5.2%	20	47.3	5 4 5
COFTHENE 50 52.0 4.0% 50 51.5 LORIDE 50 48.2 3.6% 50 49.6 LORIDE 50 48.2 3.6% 50 49.6 COFLUOROMETHANE (FR11) 50 60.7 21.4% 50 49.6 DDIFLUOROMETHANE (FR12) 50 59.5 19.0% 50 54.7 HLOROTRIFLUOROETHANE (FR113) 50 53.2 6.4% 50 54.7 HLOROTRIFLUOROETHANE (FR113) 50 53.2 6.4% 50 54.7 ENZENE 50 53.7 7.4% 50 53.2 AZENE 50 53.5 7.0% 50 51.2 NES 100 107 7.0% 50 52.3 NES 50 52.8 5.6% 50 52.3 SO 52.8 5.6% 50 52.3	1,1,2-IRICHLORO ETHANE	20	48.4	3.2%	. 20	53.1	R 2%
LOKIDE 50 48.2 3.6% 50 49.8 COFLUOROMETHANE (FR11) 50 60.7 21.4% 50 60.0 DDIFLUOROMETHANE (FR11) 50 60.7 21.4% 50 60.0 ALOROTRIFLUOROETHANE (FR113) 50 53.2 6.4% 50 53.2 HLOROTRIFLUOROETHANE (FR113) 50 53.7 7.4% 50 54.7 ENZENE 50 53.7 7.4% 50 53.2 VZENE 50 53.5 7.0% 50 51.2 NES 100 107 7.0% 50 51.7 NES 50 52.8 5.6% 50 52.3 50 52.8 5.6% 50 52.3	TRICHLORO ETHENE	20	52.0	4.0%	50	515	30%
COFLUCKOMETHANE (FR11) 50 60.7 21.4% 50 60.0 COFLUCKOMETHANE (FR12) 50 59.5 19.0% 50 58.6 CHLOROTRIFLUOROETHANE (FR113) 50 53.2 6.4% 50 58.6 HLOROTRIFLUOROETHANE (FR113) 50 53.7 7.4% 50 54.7 ENZENE 50 53.7 7.4% 50 51.2 VZENE 50 52.8 5.6% 50 51.2 NES 100 107 7.0% 100 105 ASD 52.8 5.6% 50 52.3	VINYL CHLORIDE	20	48.2	3.6%	50	49.6	0.8%
ALOROTRIFLUOROETHANE (FR12) JUI-LUOROMETHANE (FR12) SO 59.5 19.0% 50 58.6 HLOROTRIFLUOROETHANE (FR113) SO 53.7 7.4% 50 53.2 ENZENE AZENE NES NES 100 107 7.0% 50 52.3 SO 52.8 5.6% 50 52.3	IRICHLOROFLUOROMETHANE (FR11)	20	60.7	21.4%	20	60.0	20.0%
FLUCKOTKIPLUOROETHANE (FR113) 50 53.2 6.4% 50 54.7 ENZENE 50 53.7 7.4% 50 53.2 VZENE 50 48.5 3.0% 50 49.0 VZENE 50 52.8 5.6% 50 51.7 NES 100 107 7.0% 100 105 50 52.8 5.6% 50 52.3	UICHLORODIFLUOROMETHANE (FR12)	20	59.5	19.0%	20	58.6	17.2%
ENZENE 50 53.7 7.4% 50 53.2 4ZENE 50 48.5 3.0% 50 49.0 4ZENE 50 53.5 7.0% 50 49.0 50 53.8 7.0% 50 51.2 NES 100 107 7.0% 105 50 52.8 5.6% 50 52.3	1,1,2-I KICHLORO I KIFLUOROE THANE (FR113)	20	53.2	6.4%	20	54.7	9.4%
AZENE 50 48.5 3.0% 50 49.0 AZENE 50 53.5 7.0% 50 51.2 50 52.8 5.6% 50 51.7 NES 100 107 7.0% 105 105 105 50 52.3	DENZENE	20	53.7	7.4%	20	53.2	6.4%
NES 53.5 7.0% 50 51.2 51.2 50 52.8 5.6% 50 51.7 7.0% 100 105 50 52.8 5.6% 50 52.3	CALCACOBENZENE	20	48.5	3.0%	20	49.0	2.0%
NES 50 52.8 5.6% 50 51.7 100 107 7.0% 100 105 50 52.8 5.6% 50 52.3	TOTAL	20	53,5	7.0%	20	51.2	2.4%
100 107 7.0% 100 105 50 52.8 5.6% 50 52.3	TOLUENE TOLUENE	20	52.8	5.6%	20	51.7	3.4%
50 52.8 5.6% 50 52.3	INSP-ATCENES	100	107	%0.7	100	105	5.0%
	0-XYLENE	20		5.6%	20	52.3	4 6%



NE RENE	(P)	OPENING STANDARD SS RESULT 50 53.8 50 52.1 50 53.1		100		
N. C.		53.8 52.1 53.1	The second	2NE	2ND SOURCE	
CARBON TETRACHLORIDE CHLOROETHANE CHLOROFORM 1,1-DICHLORO ETHANE 1,1-DICHLORO ETHENE CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	. 22 22 22 22 22 22 22 22 22 22 22 22 22	53.8 52.1 53.1	%DIFF	MASS	RESULT	%DIFF
CHLOROETHANE CHLOROFORM 1,1-DICHLORO ETHANE 1,1-DICHLORO ETHENE CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	20 20 20 20 20 20 20 20 20 20 20 20 20 2	52.1	7.6%	20	44.4	11 2%
CHLOROFORM 1,1-DICHLORO ETHANE 1,1-DICHLORO ETHANE 1,1-DICHLORO ETHENE CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	- 06 06 06 06	53.1	4.2%	20	45.8	8.4%
1,1-DICHLORO ETHANE 1,2-DICHLORO ETHANE 1,1-DICHLORO ETHENE CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	00 00 00 00		6.2%	20	52.8	5.6%
1,1-DICHLORO ETHANE 1,1-DICHLORO ETHENE CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	2000	48.5	3.0%	20	46.7	6.6%
1,1-DICHLORO ETHENE CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	20 20	48.6	2.8%	20	50.4	0.8%
CIS-1,2-DICHLORO ETHENE TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	20	54.9	8.6	50	48.9	2.2%
TRANS-1,2-DICHLORO ETHENE DICHLOROMETHANE	4	52.4	4.8%	20	52.6	5 2%
DICHLOROMETHANE	90	53.3	6.6%	50	49.9	0.2%
	20	54.1	8.2%	20	49.4	1.2%
IE IKACHLOKO E IHENE	50	51.6	3.2%	20	52.1	4 2%
1,1,1,2-TETRACHLORO ETHANE	50	49.5	1.0%	20	42.2	15.6%
1,1,2,2-TETRACHLORO ETHANE	20	46.6	6.8%	20	52.5	5.0%
1,1,1-TRICHLORO ETHANE	20	52.6	5.2%	20	48.5	3.0%
1,1,2-TRICHLORO ETHANE	20	51.4	2.8%	20	52.1	4 2%
TRICHLORO ETHENE	90	50.0	%0.0	20	50.6	1.2%
VINYL CHLORIDE	20	49.1	1.8%	20	42.4	15.2%
TRICHLOROFLUOROMETHANE (FR11)	20	97.6	15.2%	20	55.2	10.4%
DICHLORODIFLUOROMETHANE (FR12)	20	57.7	15.4%	20	55.8	11.6%
1,1,2-IRICHLOROTRIFLUOROETHANE (FR113)	20	54.0	8.0%	20	49.7	0.6%
BENZENE 0:: 0:000 per interior	20	52.7	5.4%	20	51.2	2.4%
CHLOROBENZENE	90	48.5	3.0%	20	48.6	2.8%
EIHYLBENZENE	20	51.3	2.6%	90	51.6	3.2%
OCCENE	20	52.6	5.2%	20	49.1	1.8%
mop-AYLENES	100	106	8.0%	100	103	3.0%
0-XYLENE	20	52.5	2.0%	20	51.6	3.2%



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HP Labs Project #GF102504-L6 Lab 6	CALIBRATION VERIFICATION SUPPLY SOURCE: SUPELCO INSTRUMENT: AGII FNT 685	CALIBRATION VERIFICATION SUPPLY SOURCE: SUPELCO LOT #LSS-917 INSTRUMENT: AGII FNT 6850 GC / 5073 MASS SPECTED METERS	ortogo so
		CONTINUING STANDARD	20 ST ECHNOMETER
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	40.3	19.4%
CHLOROETHANE	20	51.1	2.2%
CHLOROFORM	20	48.0	4 0%
1,1-DICHLORO ETHANE	50	47.4	7.0%
1,2-DICHLORO ETHANE	20	49.1	1 89%
1,1-DICHLORO ETHENE	. 09	51.7	3.4%
CIS-1,2-DICHLORO ETHENE	20	53.7	7.4%
TRANS-1,2-DICHLORO ETHENE	20	50.9	1.8%
DICHLOROMETHANE	50	51.2	2.4%
TETRACHLORO ETHENE	20	50.9	1.8%
1,1,1,2-TETRACHLORO ETHANE	20	41.9	16.2%
,1,2,2-TETRACHLORO ETHANE	20	50.3	0.6%
,1,1-TRICHLORO ETHANE	20	44.1	11.8%
I,1,2-TRICHLORO ETHANE	20	51.7	3.4%
TRICHLORO ETHENE	20	50.3	0.6%
VINYL CHLORIDE	20	50.3	0.6%
TRICHLOROFLUOROMETHANE (FR11)	20	53.2	6.4%
DICHLORODIFLUOROMETHANE (FR12)	20	59.7	19.4%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	47.8	4.4%
BENZENE	20	52.4	4.8%
CHLOROBENZENE	20	50.0	%0.0
ETHYLBENZENE	90	53.5	7.0%
TOLUENE	20	52.2	4.4%
m&p-XYLENES	100	107.8	7.8%
0-XYLENE	20	O-XYLENE 53 7	7 407



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DATE: 10/26/04	CALIBRATION VERIFICATION	RIFICATION COLUMN	
HP Labs Project #GF 102504-Lb	INSTRUMENT: AC	SUPPLY SOURCE: SUPELCO LOT #LSS-917 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER	SS SPECTROMETER
		CONTINUING STANDARD	Q
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	40.4	19.2%
CHLOROETHANE	20	59.5	19.0%
CHLOROFORM	20	49.2	1.6%
1,1-DICHLORO ETHANE	20	49.0	2.0%
1,2-DICHLORO ETHANE ·	20	49.7	0.6%
1,1-DICHLORO ETHENE	20	60.0	20.0%
CIS-1,2-DICHLORO ETHENE	20	53.3	6.6%
TRANS-1,2-DICHLORO ETHENE	20	58.4	16.8%
DICHLOROMETHANE	20	59.6	19.2%
TETRACHLORO ETHENE	20	55.1	10.2%
1,1,1,2-TETRACHLORO ETHANE	20	41.9	16.2%
1,1,2,2-TETRACHLORO ETHANE	20	49.5	1.0%
1,1,1-TRICHLORO ETHANE	20	43.9	12.2%
1,1,2-TRICHLORO ETHANE	20	53.3	6.6%
TRICHLORO ETHENE	20	51.7	3.4%
VINYL CHLORIDE	20	59.7	19.4%
TRICHLOROFLUOROMETHANE (FR11)	20	59.8	19.6%
DICHLORODIFLUOROMETHANE (FR12)	20	59.8	19.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	90	59,2	18.4%
BENZENE	20	53.0	%0.9
CHLOROBENZENE	20	52.9	5.8%
ETHYLBENZENE	20	54.9	9.8%
TOLUENE	20	51.1	2.2%
m&p-XYLENES	100	114.2	14.2%
o-XYLENE	20	55.6	11.2%



DAIE: 10/2/104	CALIBRATION VERIFICATION	RIFICATION	
HP Labs Project #GF102504-L6 Lab 6	SUPPLY SOURCE INSTRUMENT: A	SUPPLY SOURCE: SUPELCO LOT #LSS-917 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER	SS SPECTROMETER
		CONTINUING STANDARD	Q
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	40.1	19.8%
CHLOROETHANE	20	57.1	14.2%
CHLOROFORM	20	49.0	2.0%
1,1-DICHLORO ETHANE	20	48.3	3.4%
1,2-DICHLORO ETHANE	20	50.5	1.0%
1,1-DICHLORO ETHENE	. 20	56.5	13.0%
CIS-1,2-DICHLORO ETHENE	20	54.1	8.2%
TRANS-1,2-DICHLORO ETHENE	20	56.9	13.8%
DICHLOROMETHANE	20	53.4	6.8%
TETRACHLORO ETHENE	20	52.4	4.8%
1,1,1,2-TETRACHLORO ETHANE	20	40.1	19.8%
1,1,2,2-TETRACHLORO ETHANE	20	49.0	2.0%
1,1,1-TRICHLORO ETHANE	20	43.2	13.6%
1,1,2-TRICHLORO ETHANE	20	52.6	5.2%
TRICHLORO ETHENE	90	51.3	2.6%
VINYL CHLORIDE	20	56.4	12.8%
TRICHLOROFLUOROMETHANE (FR11)	20	58.7	17.4%
DICHLORODIFLUOROMETHANE (FR12)	20	58.3	16.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	54.7	9.4%
BENZENE	20	52.7	5.4%
CHLOROBENZENE	20	2007	1.4%
ETHYLBENZENE	20	53.4	6.8%
TOLUENE	20	51.9	3.8%
m&p-XYLENES	100	110.0	10.0%
0-XYLENE	20	o-XYLENE 52.4	A R04



HP Labs Project #GF102504-L6	SUPPLY SOURCE: SUPELCO	CALIBRATION VERIFICATION SUPPLY SOURCE: SUPELCO LOT #LSS-917	
Labé	INSTRUMENT: AGII	AGILENT 6850 GC / 5973 MASS SPECTROMETER	SS SPECTROMETER
	242000000	CONTINUING STANDARD	02
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	40.3	19.4%
CHLOROETHANE	20	59.8	19.6%
CHLOROFORM	20	52.3	4.6%
1,1-DICHLORO ETHANE	20	50.1	0.2%
1,2-DICHLORO ETHANE	20	52.7	5.4%
1,1-DICHLORO ETHENE	20	59.2	18.4%
CIS-1,2-DICHLORO ETHENE	20	56.7	13.4%
TRANS-1,2-DICHLORO ETHENE	90	58.5	17.0%
DICHLOROMETHANE	20	59.6	19.2%
TETRACHLORO ETHENE	90	53.8	7.6%
1,1,1,2-TETRACHLORO ETHANE	20	42.4	15.2%
1,1,2,2-TETRACHLORO ETHANE	20	53.7	7.4%
1,1,1-TRICHLORO ETHANE	20	44.0	12.0%
1,1,2-TRICHLORO ETHANE	20	57.0	14.0%
TRICHLORO ETHENE	20	53.8	7.6%
VINYL CHLORIDE	20	59.0	18.0%
TRICHLOROFLUOROMETHANE (FR11)	20	59.9	19.8%
DICHLORODIFLUOROMETHANE (FR12)	20	59.2	18.4%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	58.3	16.6%
BENZENE	20	55.5	11.0%
CHLOROBENZENE	20	52.9	5.8%
ETHYLBENZENE	20	54.1	8.2%
TOLUENE	20	53.8	7.6%
m&p-XYLENES	100	112.0	12.0%
O-XYLENE	20	55.6	11 2%



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HP Labs Project #GF102504-L6 Lab 6	SUPPLY SOURCE INSTRUMENT:	CALIBRATION VERIFICATION SUPPLY SOURCE: SUPELCO LOT #LSS-917 INSTRUMENT: AGII FNT 6850 GC / 5073 MASS SPECTED	ast swoot 2 ago 99
		CONTINUING STANDARD	3D COLLEGISTON
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	20	44.7	10.6%
CHLOROETHANE	20	62.3	24.6%
CHLOROFORM	20	55.3	10.6%
1,1-DICHLORO ETHANE	20	49.5	1.0%
1,2-DICHLORO ETHANE	20	51.0	2.0%
1,1-DICHLORO ETHENE	20	46.7	6.6%
CIS-1,2-DICHLORO ETHENE	20	55.1	10.2%
TRANS-1,2-DICHLORO ETHENE	20	57.6	15.2%
DICHLOROMETHANE	20	57.4	14.8%
TETRACHLORO ETHENE	20	55.1	10.2%
1,1,1,2-TETRACHLORO ETHANE	20	40.3	19.4%
1,1,2,2-TETRACHLORO ETHANE	20	50.5	1.0%
1,1,1-TRICHLORO ETHANE	20	48.9	2.2%
1,1,2-TRICHLORO ETHANE	20	54.0	8.0%
TRICHLORO ETHENE	20	52.4	4.8%
VINYL CHLORIDE	20	51.6	3.2%
TRICHLOROFLUOROMETHANE (FR11)	20	61.4	22.8%
	20	58.5	17.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	20	48.0	4.0%
BENZENE	20	55.5	11.0%
CHLOROBENZENE	20	49.9	0.2%
ETHYLBENZENE	20	54.0	8.0%
TOLUENE	20	54.7	9.4%
m&p-XYLENES	100	110.0	10.0%
0-XYLENE	20	54.3	S 607